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FERTILIZER ANALYSES

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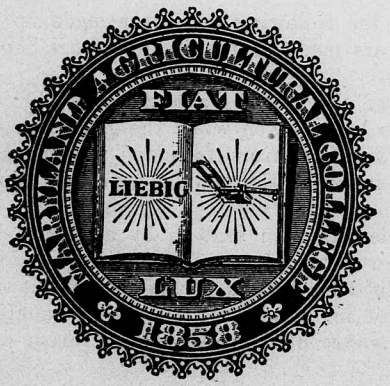

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ADDRESS

Chemical Department, Maryland Agricultural College

COLLEGE PARK, MD.

ANALYSES OF

Fertilizers Sold in Maryland

BY THE CHEMICAL DEPARTMENT OF

The Maryland Agricultural College

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The tables on the following pages are made up of the results of the analysis of fertilizers made at the College from September to December, 1910, inclusive.

The majority of the samples analyzed are obtained by our sampling agents, the samples being taken while the goods are in transit, on vessels, wharves, cars, or stations, from farmers' wagons, barns, etc. It is impossible for us to analyze all the samples we collect; duplicates are generally omitted.

When a sample has been sent in by a farmer his name, or initials, will be found after the "place of sampling." No sample is analyzed unless fully described on blanks furnished by this department. The description is not sent in, however, till after the analysis is reported.

No samples are accepted from manufacturers or their agents under any circumstances.

The figures in the columns headed "Ammonia," "Potash" and "Phosphoric Acid," are percentages, or pounds per hundred. To get pounds per ton multiply the per cent by 20. The columns headed "Found" contain the results found by analysis; those headed "Guaranteed" contain the essential part of the guarantee as stamped on the bags.

The columns headed "No." contain the respective numbers by which the samples are known in the laboratory. In writing to the Chemical Department in regard to any analysis the number should always be given. The samples are numbered consecutively on the books of the office, but are arranged alphabetically for publication, which accounts for the mixing of the numbers.

To get "Total" phosphoric acid add the "Insoluble" to the "Available" phosphoric acid.

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[1]Resigned September 15, to accept position of Assistant State Chemist of Indiana.
[2]Resigned December 1, to accept position with the U. S. Department of Agriculture.
[3]Resigned January 1, to accept position in Porto Rico.

The "Comparative Value Found" is calculated from the results of analysis as found in our laboratory; the "Comparative Value Guaranteed" is calculated from the manufacturers' guaranteed analysis as printed on the bags; in each case using the schedule as given below.

Schedule for Calculating Comparative Values

In Mixed Fertilizers:

For Nitrogen, calculated as Ammonia	20 cts. per pound
For Potash (K_2O), in forms free from muriate	6 cts. per pound
For Potash (K_2O), as muriate or kainit	5 cts. per pound
For Available Phosphoric Acid	6 cts. per pound
For Insoluble Phosphoric Acid	2 cts. per pound
For Insoluble Phosphoric Acid when from rock	1 ct. per pound

In Dissolved Rock:

Available Phosphoric Acid	4½ cts. per pound
Insoluble Phosphoric Acid	1 ct. per pound

In Tankage:

For Nitrogen, calculated as Ammonia	15 cts. per pound
For Phosphoric Acid	3 cts. per pound

In Ground Bone:

For Nitrogen, calculated as Ammonia	20 cts. per pound
For Phosphoric Acid	3 cts. per pound

The "Comparative Values" given in the table are not claimed to be the proper prices to be paid for the various fertilizers at the place of sale or use. They will be found to be not far from the prices for which fertilizers may be obtained at Baltimore, for cash. In making comparisons at other points freight from Baltimore should be added.

It should be noted that plant food costs more in low grade or "cheap" fertilizers than it does in high grade goods. Thus a 1-5-1 fertilizer (1 per cent of ammonia, 5 per cent of available phosphoric acid and 1 per cent of potash) will cost more than half as much as a 2-10-2 fertilizer, though it only contains half as much plant food. The demand for "cheap" fertilizer causes low grade material to be at premium, even when less efficient and less available than the same amount of actual plant food in the higher grade goods.

Farmers are advised to buy 16 per cent dissolved rock or acid phosphate, when possible. Do not expect to get the 16 per cent goods at the same price paid for the 14 per cent, however. The higher grade will cost about $1 per ton more. The cheapest filler is the soil in the field and the cheapest mixing machine is the harrow.

Low grade mixed fertilizers should be avoided, such as a fertilizer guaranteed to contain ¼ per cent Ammonia, 6 per cent Available Phosphoric Acid and 1 per cent of Potash. Such a fertilizer could be made as follows: 50 lbs. Ground Fish, 750 lbs. Dissolved Rock and 40 lbs. Muriate of Potash to the ton; this would necessitate the use of 1160 lbs. of filler in each ton.

In practice, however, such a fertilizer would be made of materials of low grade, as garbage tankage, kainit, etc., and would not require so much filler.

Avoid the "cheap" low grade fertilizers if you would avoid filler.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	Amer. Agrl. Chem. Co., New York.											
21569	Big Crop Phospate	Baltimore	.....	.....	5.32	5.00	.40	.....	8.18	8.00	$12.76	$12.20
21628	Dead Shot Phosphate	Reisterstown	.63	.50	2.31	2.00	.90	.....	8.44	8.00	15.32	13.60
21656	Excelsior Alkaline Bone	Easton	.....	.....	5.31	5.00	.37	.....	10.09	10.00	14.46	14.00
21515	Fine Ground Bone	Baltimore	3.04	3.00	.....	.....	*25.06	*22.88	.....	.....	27.20	25.73
21639	Fish, Bone & Potash	Williamsport	1.66	1.50	3.28	3.00	1.12	.....	8.71	8.00	20.82	18.60
21698	Gem Alkaline Phosphate	Baltimore	.....	.....	3.79	3.00	.25	.....	6.62	6.00	9.80	8.40
21738	Ideal Corn Grower	Annapolis	1.18	1.00	4.48	4.00	1.52	.....	8.33	8.00	19.81	17.60
21641	Imp. Wheat & Clover Producer	Williamsport	1.04	1.00	2.41	2.00	.45	.....	12.51	12.00	21.76	20.40
21538	Pure Ground Bone	Baltimore	4.39	4.00	.....	.....	*23.02	*20.59	.....	.....	31.37	28.35
21708	Royal Alkaline Bone	Baltimore	.....	.....	4.38	4.00	.45	.....	9.94	10.00	13.42	13.00
21703	Special Potash Mixture	Baltimore	1.03	1.00	7.38	7.00	.87	.....	9.19	9.00	22.88	21.80
21664	Square Deal Phosphate	Baltimore	2.20	2.00	4.94	4.00	1.17	.....	8.12	8.00	23.95	21.60
21509	Super-Phosphate 16%	Baltimore	.....	.....	.....	.....	.20	.....	16.07	16.00	14.50	14.40
21780	Super-Phosphate 16%	Cecilton (J. H. S.)	.....	.....	.....	.....	.22	.....	17.03	16.00	15.37	14.40
	A. A. C. Co. (Canton), Balto., Md.											
21674	Baker's Dissolved S. C. Phosphate	Baltimore	.....	.....	.....	.....	.65	.....	14.84	14.00	13.49	12.60
21500	Baker's Fish Guano	Baltimore	2.03	2.00	2.28	2.00	1.10	.....	8.32	8.00	20.82	19.60
21679	Baker's Sp. Wh., Corn & Gr. Mix.	Baltimore	1.04	1.00	2.44	2.00	1.20	.....	9.03	9.00	17.92	16.80
21640	Harrow Brand Crop Grower	Thurmont	1.02	1.00	1.20	1.00	.80	.....	8.40	8.00	15.68	14.60
21629	Patrons' Bone Mixture	Reisterstown	2.12	2.00	3.03	2.50	6.77	10.00	7.54	5.00	23.27	20.50
21686	Soluble Alkaline Phosphate	Baltimore	.....	.....	3.41	3.00	.37	.....	12.16	12.00	14.42	13.80
21642	Soluble Phosphate & Potash	Thurmont	.....	.....	2.32	2.00	.42	.....	10.08	10.00	11.47	11.00
	A. A. C. Co. (Detrick), Balto., Md.											
21739	Ammoniated Bone Phosphate	Baltimore	1.67	1.50	2.45	2.00	1.02	.....	9.31	9.00	20.71	18.80

21739	Ammoniated Bone Phosphate....	Baltimore	1.61	1.50	2.75	2.00						
21570	Corn and Oats Fertilizer	Baltimore	1.01	1.00	3.09	3.00	1.27	9.03	9.00	$18.48	$17.80
21643	Dissolved S. C. Phosphate.....	Middletown	.....	.....	.....	.....	.55	14.96	14.00	13.57	12.60
21699	Imperial Compound.....	Baltimore	1.13	1.00	3.23	2.00	.90	8.14	8.00	17.88	15.60
21683	K K K Kangaro Kom. Kompound.	Baltimore	2.10	2.00	3.35	3.00	1.25	8.03	8.00	21.89	20.60
21709	Paragon Am. Phos. & Potash ..	Baltimore	1.04	1.00	1.39	1.00	1.27	6.92	7.00	14.36	13.40
21622	P. & B. Special Fertilizer.....	Chestertown.....	.....	.....	3.70	3.00	.40	13.21	12.00	15.67	13.80
21726	Phosphate & Potash 16 x 4 Mix..	Baltimore	.....	.....	2.25	2.00	.37	11.17	11.00	12.37	11.90
21571	Soluble Phosphate and Potash...	Baltimore	.....	.....	2.51	2.00	.47	10.27	10.00	11.84	11.00
21704	Special Mixture.....	Baltimore	1.02	1.00	1.28	1.00	.87	8.01	8.00	15.32	14.60
21717	Standard Potash Fertilizer.....	Singerly.....	1.43	1.50	5.46	5.00	1.27	6.43	6.00	19.41	18.20
21727	Victory Alkaline Bone.....	Baltimore	.....	.....	5.17	5.00	.57	12.26	12.00	16.31	15.80
	A. A. C. Co. (Lazaretto), Baltimor	**e, Md.**									
21732	Ammoniated Phosphate	Ellicott City.....	1.01	1.00	2.20	2.00	1.00	8.47	8.00	16.80	15.60
21631	Crop Grower..... ...	Glen Morris	2.06	2.00	2.48	2.00	.95	8.52	8.00	21.32	19.60
21539	Dissolved Phosphate...	Baltimore	.....	.....	.....	.....	.52	14.64	14.00	13.28	12.60
21547	Dissolved Phosphate & Potash...	Cumberland	.....	.....	2.14	2.00	.85	8.16	8.00	9.65	9.20
21733	Forsythe & Linthicum Mixture..	Ellicott City.. ...	2.27	2.25	4.31	4.00	2.75 4.50	11.47	9.00	28.25	25.60
21566	H. G. Dis. Phosphate & Potash..	Baltimore	.....	.....	5.05	5.00	.60	12.58	12.00	16.49	15.80
21633	Retriever Animal Bone Fertilizer	Glencoe	2.32	2.25	4.65	4.00	2.30 4.50	11.66	9.00	28.84	25.60
21734	Special Ammoniated Compound..	Ellicott City.....	1.31	1.25	3.38	3.00	1.12	9.35	9.00	20.29	18.80
21555	Special Wheat & Grass Fertilizer	Rockville.	1.04	1.00	4.03	4.00	1.27	8.26	8.00	18.61	17.60
21644	Wheat, Corn & Grass Grower...	Middletown	.61	.50	2.26	2.00	1.10	8.10	8.00	14.86	13.60
	A. A. C. Co. (Maryland), Baltimor	**e, Md.**									
21669	Ammoniated Phosphate.....	Baltimore	1.96	2.00	3.23	3.00	1.40	8.32	8.00	21.61	20.60
21657	Special Compound.....	Oxford..	2.08	2.00	10.28	10.00	.90	8.65	8.00	29.34	27.60
	A.A.C.Co. (Nickerson), Easton, Md.										
21678	Alkaline Bone and Potash	Baltimore	.....	.....	2.36	2.00	.67	10.04	10.00	11.53	11.00
21675	Dissolved Bone and Potash.....	Baltimore	.....	.....	5.15	5.00	.67	12.07	12.00	16.14	15.80
21687	English Mixture....	Baltimore	1.21	1.00	3.01	2.00	1.05	9.15	8.00	19.25	15.60
	A. A. C. Co. (Reese), Balto., Md.										
21794	Special Crown Phos. & Potash...	Baltimore	.....	.....	2.31	2.00	.70	11.03	12.00	12.38	12.80
	A. A. C. Co. (Susquehanna), Balti	**more, Md.**									
21713	Animal Phosphate	Baltimore..... ...	1.62	2.00	2.67	2.00	2.47	9.39	9.00	21.41	20.80
21524	H. G. Phosphate and Potash.....	Baltimore	.....	.....	5.52	5.00	.68	12.34	12.00	16.77	15.80
21714	Soluble Bone and Potash.....	Baltimore	. ...	.....	2.47	2.00	.45	10.29	10.00	11.82	11.00
21728	Superior Rock Phosphate.....	Baltimore	.....	.....	.....	.....	.55	14.45	14,00	13.12	12.60
21795	X. X. V. Phosphate.....	Baltimore	1.04	1.00	1.24	1.00	1.17	8.02	8.00	15.49	14.60

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	A. A. C. Co. (Tygert Allen), Philadelphia, Pa.											
21535	Standard Brand Phosphate	Baltimore	2.13	2.00	2.29	2.00	.75	.....	9.01	8.00	$21.92	$19.60
21517	Star Soluble Phosphate & Potash	Baltimore	.....	.....	3.16	2.00	.65	.....	9.50	10.00	11.84	11.00
	A.A.C.Co. (Wheeler), Rutland, Vt.											
21765	Bone and Potash	Aireys (C. K.)	.....	.....	4.78	3.00	.75	.....	11.68	12.00	15.44	13.80
21685	General Crop Grower	Baltimore	2.06	2.00	2.43	2.00	1.17	.....	8.31	8.00	21.11	19.60
21735	H. G. Tomato Fertilizer	Baltimore	1.14	1.00	1.34	1.00	1.05	.....	7.67	7.00	15.52	13.40
21645	Peerless Acid Phosphate	Gapland	.....	.....	.....	.....	.80	.....	14.93	14.00	13.60	12.60
21665	Royal Wheat Grower	Baltimore	1.01	1.00	2.74	2.00	.87	.....	8.25	8.00	17.03	15.60
21518	Wheat and Clover Fertilizer	Baltimore	.....	.....	2.08	2.00	.85	.....	10.07	10.00	11.31	11.00
	A. A. C. Co. (Zell), Balto., Md.											
21548	Ammoniated Super-Phosphate	Cumberland	1.95	2.00	2.18	2.00	.60	.....	8.04	8.00	19.87	19.60
21549	Dissolved Phosphate	Cumberland	.....	.....	.....	.....	1.10	.....	14.60	14.00	13.36	12.60
21578	Economizer Phosphate	Union Mills	1.06	1.00	2.43	2.00	1.17	.....	8.39	8.00	17.21	15.60
21632	Electric Phosphate	Upperco	.....	.....	2.56	2.00	.52	.....	10.03	10.00	11.69	11.00
21666	Hustler Phosphate	Baltimore	1.09	1.00	3.38	3.00	.67	.....	9.39	9.00	19.28	17.80
21550	Little Giant	Cumberland	1.02	1.00	1.18	1.00	.57	.....	7.43	7.00	14.41	13.40
	Acme Guano Co., Baltimore, Md.											
21761	New Harvest King	Monrovia (R. L. D.)	1.09	.50	9.86	6.50	.12	.....	4.90	10.00	20.15	20.50
21782	New Harvest King	Woodbine (F. J. S.)	.73	.50	7.52	6.50	.30	.....	9.38	10.00	21.82	20.50
	Amer. Fertilizing Co., Balto., Md.											
21646	Ammoniated Bone Compound	Gapland	1.11	1.00	2.03	2.00	1.62	1.00	8.49	8.00	17.31	16.00
21603	Bob White Fertilizer	Travilah	1.02	1.00	2.01	2.00	1.40	.....	9.41	9.00	17.94	16.80

21594	Champion Grain Grower	Two Johns										

21603	Bob White Fertilizer	Peruvian										
21594	Champion Grain Grower	Two Johns	1.13	1.00	4.04	4.00	1.32	1.00	7.81	8.00	$18.46	$18.00
21689	Disolved Bone and Potash	Baltimore	.....	.....	2.05	2.00	1.37	1.00	9.79	10.00	11.13	11.20
21681	Double Extra Bone and Potash	Baltimore	.. ..	.. ..	5.36	5.00	1.55	1.00	11.58	12.00	16.09	16.00
21718	Eagle Crop Grower	Colora	1.74	2.00	2.36	2.00	1.37	1.00	8.05	8.00	19.53	20.00
21688	Excelsior Guano	Baltimore	2.08	2.00	b4.63	5.00	1.42	1.00	8.03	8.00	24.09	24.00
21540	Formula for Wheat and Corn	Baltimore	.....	.....	5.04	5.00	1.52	1.00	9.80	10.00	14.16	14.20
22736	High Grade Acid Phosphate	Baltimore	.....	.....	.....	.....	1.65	1.00	14.23	14.00	13.14	12.80
21695	High Grade Acid Phosphate	Baltimore	.....	.....	.....	.....	1.60	1.00	15.89	16.00	14.62	14.60
21647	Reliable Guano	Gapland	1.14	1.00	1.04	1.00	1.60	1.00	9.24	8.00	17.33	15.00
21595	Special Compound Guano	Two Johns	.53	.50	3.39	3.00	1.35	1.00	7.02	7.00	14.47	13.80
21680	Special Potash Mixture	Baltimore	.....	.....	3.87	4.00	1.12	1.00	8.43	8.00	11.68	11.40
	Armour Fert. Works, Balto., Md.											
21796	Ammoniated Bone with Potash	Baltimore	a2.75	3.00	2.93	2.00	1.25	.50	6.06	6.00	21.70	21.40
21719	Bone Meal	Colora	2.85	3.00	.....	....	*24.69	*24.00	.....	.....	26.21	26.40
21762	Bone Meal	(H. Virdin)	2.92	3.00	.....	.....	*27.06	*24.00	.....	.....	27.92	26.40
21715	Cereal Phosphate	Baltimore	.....	.....	.....	.....	.22	.50	11.02	10.00	9.96	9.10
21648	Crop Grower	Lime Kiln	1.02	1.00	2.55	2.00	1.27	.50	7.76	8.00	16.45	15.80
21758	Crop Grower	Barnesville (R H D)	.96	1.00	2.04	2.00	1.20	.50	6.93	8.00	14.68	15.80
21627	Farmers' Choice	Fallston	1.13	1.00	3.33	3.00	.57	.....	9.02	9.00	18.90	17.80
21556	Fruit and Root Crop Special	Gaithersburg	a1.96	2.00	5.14	5.00	.85	.50	8.02	8.00	22.94	22.80
21605	Grain Grower	Highland	1.83	2.00	2.43	2.00	1.35	.....	8.10	8.00	20.01	19.60
21736	High Grade Potato	Baltimore	1.86	2.00	10.11	10.00	.92	.50	7.72	8.00	27.18	27.80
21596	Phosphate and Potash	Williston	.....	.....	5.10	5.00	.75	.50	11.94	12.00	16.00	15.90
21746	Phosphate and Potash	Easton (R. L. K.)	.....	.....	5.22	5.00	.63	.50	11.83	12.00	16.00	15.90
21748	Phosphate and Potash	Easton (W. H. K.)	.....	.....	5.09	5.00	1.12	.50	11.71	12.00	15.85	15.90
21763	Phosphate and Potash	(H. Virdin)	.....	.....	5.52	5.00	.92	.50	11.83	12.00	16.35	15.90
21573	Phosphate and Potash No. 1	Baltimore	.....	.....	2.17	2.00	.72	.50	10.01	10.00	11.32	11.10
21737	Raw Bone Meal	Baltimore	4.71	4.50	.....	.....	*23.24	*22.00	.....	.....	32.78	31.20
21567	Royal Ammoniated Bone	Baltimore	1.02	1.00	4.20	4.00	.77	.50	8.06	8.00	18.26	17.80
21781	Royal Ammoniated Bone.	Cecilton (M R W A)	.96	1.00	4.37	4.00	.90	.50	8.30	8.00	18.53	17.80
21676	Special Mixture	Baltimore	a.68	.50	1.74	1.00	.32	.50	8.91	8.00	15.28	12.80
21756	Special Mixture	New London (C E A)	3.05	2.90	3.57	3.75	5.45	5.00	9.34	11.00	29.16	30.55
21606	Star Phosphate	Ednor	.....	.....	.....	.....	.30	.50	14.44	14.00	13.06	12.70
21574	Sure Crop	Baltimore	.....	.....	5.20	5.00	.65	.50	8.05	8.00	12.58	12.30
21729	Wheat, Corn and Oat Special	Baltimore	1.01	1.00	1.31	1.00	1.50	.50	7.25	7.00	14.65	13.60
21541	Wheat and Clover	Baltimore	.....	.....	5.18	5.00	.55	.50	10.05	10.00	14.34	14.10
	Atlantic Fertilizer Co., Balto., Md.											
21504	Arrow Brand Special	Baltimore	1.18	1.00	4.04	4.00	.89	.....	8.16	8.00	18.91	17.60
21597	Crop Producer	Centreville	.61	.50	2.58	2.00	1.70	.....	9.01	8.00	16.51	13.60

b As Sulfate. a Contains Nitrate. *Total Phosporic Acid

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	Atlantic Fertilizer Co., Balto., Md.											
21731	Crown Phos. and Potash	Baltimore	.....	.....	4.22	3.00	1.72	.....	6.55	6.00	$10.46	$ 8.40
21667	Dissolved Phosphate	Baltimore	.....	.....	.....	.....	1.30	.....	16.15	14.00	14.80	12.60
21649	Farmers' Alkaline Mixture	Walkersville	.....	.....	2.04	2.00	3.05	.....	9.70	10.00	11.38	11.00
21634	Fish & Potash Guano	Philopolis	1.60	1.75	4.02	3.00	1.35	.....	7.23	7.00	19.64	18.40
21650	G.G.G. Golden Grain Grower	Walkersville	1.84	2.00	4.12	4.00	1.17	.....	9.59	9.00	23.46	22.80
21505	Gold Medal Superior.	Baltimore	a2.47	2.00	3.70	3.00	.90	.....	8.80	8.00	24.50	20.60
21658	High Grade Potash Compound	Easton	.....	.....	4.83	5.00	1.37	.....	12.05	12.00	15.95	15.80
21607	Jumbo Crop Grower	Silver Spring	.....	.....	5.38	5.00	2.05	.....	11.23	8.00	15.90	12.20
21723	Matchless A. B. C. Food	Newark	.61	.50	3.22	3.00	1.92	.....	9.88	8.00	18.29	14.60
21598	Reliance Special Mixture	Centreville	1.25	1.00	1.50	1.00	1.72	.....	8.90	8.00	17.87	14.60
21760	Tankage 10%	Denton (L. R. C.)	7.24	10.00	.....	.....	.....	.....	.....	.....	.....	.....
21668	X X Special Compound	Baltimore	4.33	2.00	4.06	10.00	.65	.....	8.87	8.00	32.28	27.60
	C. A. Baile & Co., Medford, Md.											
21579	Bone Phosphate No. 3	Medford	1.43	1.25	2.80	2.00	.50	1.50	9.96	9.50	20.67	19.00
	Balto. Fertilizer Co., Balto., Md.											
21510	Honest Acid Phosphate	Baltimore	.....	.....	.....	.....	1.25	2.00	14.02	14.00	12.87	13.00
21557	Honest A. K. Bone	Boyd	.....	.....	3.24	3.00	.72	.....	9.25	8.00	11.71	10.20
21635	Honest Ammoniated Bone	Parkton	1.95	2.00	2.95	2.00	1.32	.....	8.29	8.00	21.23	19.60
21696	Honest Bone Phosphate	Baltimore	.80	.25	2.62	1.00	.42	.....	6.32	7.00	13.57	10.40
21697	Honest Crop Grower	Baltimore	1.55	1.00	1.24	1.00	.65	1.00	7.16	8.00	16.29	15.00
21511	Honest Harvest	Baltimore	1.28	1.25	2.29	2.00	2.00	.....	6.88	8.00	16.47	16.60
21568	Honest Standard	Baltimore	1.27	1.25	3.39	3.00	.87	.....	10.84	10.00	21.83	20.00
21558	Honest Success	Boyd	a.97	1.00	4.67	4.00	.92	1.00	6.62	7.00	16.86	16.80
21559	Old Honesty	Dickerson	.65	.50	2.74	2.00	1.85	1.00	7.94	8.00	15.61	14.00
	Balto. Pulverizing Co., Balto., Md.											

Balto. Pulverizing Co., Balto., Md.													
21710	Ammoniated Butchers Bone	Baltimore	1.02	1.50	1.76	1.50	1.52	.....	9.65	9.00	$18.03	$18.30
21691	Penniman's Excelsior Fertilizer	Baltimore	.....	.....	2.98	2.50	.62	.....	11.16	10.00	13.14	11.50
21519	Penniman's Special Guano No. 1	Baltimore	1.01	1.00	1.83	1.00	1.15	.....	8.51	8.00	16.54	14.60
21599	Practical Fertilizer	Centreville	.55	.50	2.04	2.00	1.35	.....	9.93	8.00	16.70	13.60
21692	Special Fall Mixture	Baltimore	.....	.....	2.13	2.00	.37	1.00	8.01	8.00	9.41	9.40
21542	Special Strawberry Compound	Baltimore	a2.18	4.00	4.11	3.00	1.42	.....	7.36	5.00	22.23	25.00
Baugh & Sons Co., Baltimore, Md												
21520	Acid Phosphate 16%	Baltimore	.....	.....	.....	.....	.50	.....	16.77	16.00	15.19	14.40
21769	Acid Phosphate 16%	Mt. Airy (J. M. C.)	.....	.....	.....	.....	.27	.....	17.23	16.00	15.56	14.40
21501	Ammoniated Soluble Alkaline	Baltimore	.65	.50	2.13	2.00	.97	.....	8.13	8.00	14.88	13.60
21551	Animal Bone & Potash	Smithsburg	2.12	2.00	2.31	2.00	.95	.....	8.63	8.00	21.53	19.60
21502	Complete Animal Bone Fertilizer	Baltimore	2.08	2.00	5.19	5.00	.45	.....	8.27	8.00	23.61	22.60
21670	Double Eagle Phosphate	Baltimore	1.88	2.00	1.42	1.00	1.10	.....	8.81	8.50	19.95	19.20
21521	Excelsior Guano	Baltimore	1.06	1.00	4.26	4.00	.90	.....	8.09	8.00	18.57	17.60
21612	Export Bone & Potash	Cardiff	2.12	2.00	2.50	2.00	3.47	.....	8.15	11.00	22.15	23.20
21560	Fine Ground Bone	Rockville	3.92	3.00	.....	.....	*16.77	*16.49	.....	.....	25.74	21.89
21503	Fish, Bone and Potash	Baltimore	a4.23	4.00	4.55	4.00	.50	.....	7.85	8.00	31.09	29.60
21705	Fish Mixture	Baltimore	2.01	2.00	2.30	2.00	1.40	.....	8.13	8.00	20.66	19.60
21552	General Crop Grower	Monrovia	1.08	1.00	1.40	1.00	.77	.....	8.75	8.00	16.53	14.60
21506	High Grade Acid Phosphate	Baltimore	.....	.....	.....	.....	.92	.....	14.62	14.00	13.34	12.60
21526	High Grade Potash Mixture	Baltimore	.....	.....	4.03	4.00	.92	.....	10.60	10.00	13.75	13.00
21651	One Quarter Mixture	Lydia	2.10	1.75	3.37	3.00	6.17	.....	8.53	12.00	24.48	24.40
21706	Peninsula Grain Producer	Baltimore	1.48	1.21	2.88	2.00	1.27	.....	8.36	8.00	19.34	16.44
21730	Phosphate & Potash 10 & 5	Baltimore	.....	.....	5.52	5.00	.55	.....	10.62	10.00	15.19	14.00
21749	Phosphate & Potash 12 & 3	Mt. Airy (J. A. E.)	.....	.....	4.53	3.00	.25	.....	12.69	12.00	16.00	13.80
21768	Phosphate & Potash 12 & 3	Mt. Airy (J. M. C.)	.....	.....	3.40	3.00	.35	.....	12.61	12.00	14.82	13.80
21527	Phosphate & Potash 12 & 5	Baltimore	.....	.....	5.11	5.00	.45	.....	12.24	12.00	16.22	15.80
21773	Phosphate & Potash 12 & 5	Bartholows (W E M)	.....	.....	5.40	5.00	.90	.....	12.68	12.00	16.99	15.80
22735	Pure Bone & Muriate Potash Mix	Cockeysville	3.19	3.00	5.40	5.00	*16.61	*15.00	.....	.....	28.13	26.00
21508	Pure Dissolved Animal Bone	Baltimore	2.76	2.50	.....	.....	2.27	.....	13.96	13.00	28.70	25.60
21543	Raw Bone Meal	Baltimore	4.57	4.50	.....	.....	*20.69	*21.50	.....	.....	30.69	30.90
21750	Raw Bone Meal	Mt. Airy (J. A. E.)	5.01	4.50	.....	.....	*20.72	*21.50	.....	.....	32.47	30.90
21767	Raw Bone Meal	Mt. Airy (J. M. C.)	5.01	4.50	.....	.....	*20.93	*21.50	.....	.....	32.60	30.90
21553	Soluble Alkaline Super-Phosphate	Emmitsburg	.....	.....	2.25	2.00	.95	.....	9.81	10.00	11.27	11.00
21600	Special Alkaline 8 & 5	Federalsburg	.....	.....	5.43	5.00	.57	.....	8.13	8.00	12.86	12.20
21512	Strawberry Mixture	Baltimore	a3.07	3.00	5.03	5.00	.55	.....	7.21	7.00	26.18	25.40
21561	Wheat and Grass Fertilizer	Rockville	2.04	2.00	2.19	2.00	.52	2.00	8.74	8.00	21.05	20.40

a Contains Nitrate. * Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	Beck-Walker Co., Chestertown, Md.				5.28	5.00	1.65		10.02	10.00	$14.63	$14.00
21624	Good Drilling 10—5	Chestertown			2.73	2.00	3.87		7.38	8.00	16.90	15.60
21623	Special Bone Mixture	Chestertown	.94	1.00	3.62	3.00	2.87		9.02	9.00	17.79	15.80
21625	Try Me Super-Phosphate	Chestertown	.55	.50								
	N. T. Bennett, New Windsor, Md.				3.25	2.50	1.50	1.00	8.65	8.00	18.47	15.50
21580	Butcher House Phosphate	New Windsor	1.06	.75	2.85	2.00	1.07	2.00	9.35	7.00	17.18	13.20
21581	Soluble Wheat Grower Phosphate	New Windsor	.67	.50								
	Berg Company, Philadelphia, Pa.				3.31	4.00	3.10		9.09	9.00	23.94	21.82
21798	Bone Manure $25	Annapolis	2.12	d2.43	6.33	8.00	3.30		9.01	9.00	31.14	33.40
21797	Electric Tobacco Manure	Annapolis	a3.17	c3.65			*22.40	*22.00			30.16	29.20
21613	Raw Bone Fine	Providence	4.18	4.00	6.35	6.00	3.85		8.97	8.00	31.01	30.20
21793	Standard Bone Manure	Annapolis	a3.09	c3.65	6.57	6.00	4.95		8.98	8.00	27.73	30.20
21614	Vigor Volo Bone and Potash	Providence	2.10	c3.65	7.16	6.00	5.42		8.73	8.00	27.17	30.20
22733	Vigor Volo Bone and Potash,	Fallston	1.84	c3.65								
	W. H. Bixler, Hagerstown, Md.				3.17	2.50	3.80		6.67	8.00	19.25	18.10
21554	Bone Phosphate	Hagerstown	1.64	1.50								
	D. Blocher & Co., Gettysburg, Pa.				2.33	2.00	1.82		8.88	9.00	18.16	16.80
21636	H. G. Super-Phosphate of Bone	Parkton	a1.11	1.00								
	H. Bryant's Son, Alexandria, Va.				2.42	2.00	.95		9.67	8.00	19.72	16.60
21609	Challenge Cropper	Silver Spring	1.33	1.25	1.54	1.00	.87		8.47	8.00	16.21	14.60
21610	Empress Ammoniated Dis. Bone	Potomac	1.04	1.00	3.70	3.00	.95		8.63	8.00	23.16	20.60
21564	Fish, Bone and Potash	Kensington	2.18	2.00								

21744	Monarch	Brookeville (D F O)	a2.41	3.00	2.18	2.00	1.35	.....	8.55	8.00	$22.62	$23.60
21742	Old Reliable	Brookeville (D F O)	1.79	1.25	4.42	4.00	1.32	.....	7.86	8.00	21.54	18.60
	Bryant Fert. Co., Alexandria, Va.											
21563	Dissolved S. C. Bone	Rockville	.....	.....	.....	.....	2.82	.....	13.02	14.00	12.28	12.60
21608	Formula "E"	Potomac	2.13	2.00	2.15	2.00	1.60	.....	8.97	8.00	22.07	19.60
21562	Queen Ammoniated Dis. Bone	Rockville	.96	1.00	1.24	1.00	1.80	.....	7.67	8.00	15.00	14.60
	Chesapeake Chem. Co., Balto., Md.											
21652	Alkaline 12 & 5	Graceham	.....	.....	5.87	5.00	1.05	.....	10.66	12.00	15.67	15.80
21653	Celebrated Mixture	Graceham	.....	.....	2.48	2.00	1.82	.....	10.53	8.00	12.32	9.20
21711	Dissolved Phosphate	Baltimore	.....	.....	.....	.....	1.25	.....	16.60	14.00	15.19	12.60
21654	Imperial Guano	Graceham	1.31	.50	2.40	2.00	1.50	.....	7.27	8.00	16.96	13.60
21700	Keystone Phosphate	Baltimore	.....	.....	5.25	5.00	2.15	.....	10.04	10.00	14.72	14.00
21655	National Crop Grower	Graceham	2.13	2.00	2.58	2.00	1.42	.....	7.25	8.00	20.37	19.60
21701	X L All Phosphate	Baltimore	.....	.....	3.75	5.00	2.30	.....	10.71	8.00	13.85	12.20
	H. Cope & Co., Lincoln Univ., Pa.											
21720	Acid Phosphate	Rising Sun	.....	.....	.....	.....	1.07	.....	16.58	14.00	15.13	12.60
	J. Cope & Co., Oxford, Pa.											
21615	Ammoniated Phosphate	Rising Sun	1.06	1.00	3.57	3.00	1.02	.....	8.02	8.00	17.84	16.60
21616	Pure Bone Phosphate	Rising Sun	2.30	2.25	4.38	4.00	2.87	4.50	11.13	9.00	28.09	25.60
21684	Wheat and Grass Special	Baltimore	1.01	1.00	1.27	1.00	.95	.....	8.06	8.00	15.36	14.60
	Coe-Mortimer Co., New York, N. Y.											
21764	Thos. Phos. Powder (Basic Slag)	Denton (H. J. B.)	.....	.....	.....	.....	*19.53	*17.00	.....	.....	.....	.....
	L. E. P. Dennis & Son, Crisfield, Md.											
21661	Fish and Potash Mixture No. 1	Crisfield	2.73	3.00	5.43	5.00	1.35	.....	6.62	7.00	24.83	25.40
21662	Fish and Potash Mixture No. 2	Crisfield	1.52	2.00	3.97	3.00	1.12	.....	7.04	7.00	18.95	19.40
21663	Klondike Fish & Potash	Mattaponi	.97	1.00	2.52	3.00	.80	.....	8.25	8.00	16.62	16.60
	J. W. Dorsey, Ellicott City, Md.											
21611	Mixture "D"	Highland	2.34	2.25	4.36	4.00	1.72	1.50	8.82	9.00	24.99	24.40
	Dudley & Carpenter, Balto., Md.											
21671	Special Wheat Mixture	Baltimore	.....	.....	3.54	3.00	.55	.....	12.46	12.00	14.86	13.80
	Edelen Bros., Baltimore, Md.											
21544	Special Wheat & Grain Mixture	Baltimore	a1.09	1.00	2.40	2.00	2.20	.....	9.02	9.00	18.46	16.80
	T. W. Eliason, Chestertown, Md.											
21626	Our Special Dis. Alkaline Phos.	Chestertown	.....	.....	1.90	1.50	2.37	.....	11.37	11.00	12.60	11.40

a Contains Nitrate. c Nitrogen 3%=Ammonia 3.65%. * Total Phosphoric Acid. d Nitrogen 2%=Ammonia 2.43%.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	J. A. Englar, Linwood, Md.											
21582	Ammoniated Bone Phos. No. 1..	Uniontown.....	2.12	2.00	2.63	1.50	1.72	.....	9.69	9.50	$23.43	$20.90
21583	Ammoniated Bone Phos. No. 2..	Uniontown.....	1.11	1.00	2.69	2.40	1.12	.....	9.30	9.80	18.74	18.16
	Eureka Fert. Co., Perryville, Md.											
21617	Alkaline No. 2.....	Rising Sun.....	.....	.....	1.94	2.00	1.32	....	10.20	10.00	11.38	11.00
21618	Farmers' Favorite.....	Rising Sun.....	1.88	2.00	2.60	2.00	.65	.....	7.75	8.00	19.68	19.60
22734	Fish, Bone & Potash.....	Leslie.....	1.11	.50	1.61	1.00	.90	.....	8.20	8.00	16.25	12.60
21620	Grain and Grass Mixture.....	Rising Sun.....	1.13	1.00	3.02	2.00	1.15	.....	7.47	8.00	16.96	15.60
21621	P. & P. Super-Phosphate.....	Rising Sun.....	.....	.....	.....	.....	1.32	.....	12.34	14.00	11.37	12.60
	W. S. Farmer & Co., Balto., Md.											
21693	B. & P. Phosphate.....	Baltimore.....	.....	.....	2.54	2.00	.34	.....	10.02	10.00	11.63	11.00
21694	Clyde Brand.....	Baltimore.....	1.08	1.00	2.07	2.00	1.07	.....	7.79	8.00	16.17	15.60
21672	Dissolved S. C. Phosphate.....	Baltimore.....	.....	.....	.....	.....	.42	.....	14.12	14.00	12.79	12.60
21677	Empire Alkaline Phosphate.....	Baltimore.....	.....	.....	5.34	5.00	.57	.....	10.40	10.00	14.81	14.00
21536	Harvest Queen.....	Baltimore.....	1.40	1.25	3.40	3.00	.95	.....	9.14	9.00	20.35	18.80
21787	Pelican Guano.....	Baltimore.....	.73	.50	3.07	3.00	.82	.....	6.78	6.00	14.46	12.20
21513	Pure Ground Bone.....	Baltimore.....	4.42	4.00	.....	.....	*22.08	*20.59	.....	.....	30.93	28.35
21545	Standard Phosphate.....	Baltimore.....	2.66	2.63	2.72	2.50	.97	.....	10.67	10.00	26.55	25.02
	Farmers' Fert. Co., U. Bridge, Md.											
21584	Bone Phosphate No. 1.....	Union Bridge.....	1.89	1.50	2.76	2.25	2.40	.....	9.22	8.00	22.34	17.85
22726	Special Mixture.....	Alesia (E. J. R.)...	1.86	3.00	6.83	5.00	1.97	.....	9.57	7.00	26.54	25.40
22727	Special Mixture.....	Alesia (E. J. R.)...	.90	1.25	5.87	5.00	1.17	.....	11.69	8.00	23.97	19.60
22725	Tankage.....	Alesia (E. J. R.)...	9.10	10.00	.....	.....	*6.79	.....	.....	.....	31.37	30.00
21585	Union Bridge Favorite.....	Union Bridge.....	1.16	1.00	2.95	2.00	1.65	.....	9.90	8.00	20.13	15.60

	Farmers' Fert. & Feed Co., West	**minster, Md.**										
21586	Acid Phosphate	Alesia					.72	2.00	14.50	14.00	$13.19	$13.00
21587	Bone Phosphate No. 1	Hampstead	2.12	2.50	3.57	2.50	1.15	2.00	9.39	9.00	23.78	24.10
21588	Bone Phosphate No. 2	Hampstead	1.81	2.00	3.40	3.00	1.35	1.00	9.02	9.00	22.00	22.20
21589	Bone Phosphate No. 3	Hampstead	1.42	1.50	3.44	3.00	1.40	1.00	8.02	8.00	19.30	19.00
21590	Carroll Bone Phosphate	Westminster	.76	.75	2.18	2.00	.70	1.00	7.96	7.00	15.05	13.80
21591	High Grade Phosphate	Westminster	2.04	2.00	5.33	5.00	1.30	1.00	11.88	11.00	28.27	26.60
21747	High Grade Phosphate	Hagerstown (I. E.)	2.03	2.00	5.23	5.00	1.43	1.00	12.04	11.00	28.37	26.60
21592	XX Bone Phosphate	Union Mills	1.08	1.00	3.59	3.00	.57	1.00	9.01	9.00	18.95	18.20
	Farmers' & Planters' Co., Salisbu	**ry, Md.**										
21724	General Crop Grower	Newark	.90	1.00	2.38	2.00	1.30		11.87	10.00	20.74	18.00
	J. W. Freeman, Great Mills, Md.											
21707	Crop Grower	Baltimore	1.18	1.00	1.48	1.00	1.12	1.50	7.10	8.00	15.17	15.20
	Thos. I. Fulks, Gaithersburg, Md.											
21565	Walker's Mixture	Gaithersburg	.58	1.00	2.50	1.50	1.55		9.93	9.00	17.36	16.30
	T. H. Gill, Avalon, Va.											
21799	Try Me Fertilizer	Baltimore	a2.20	2.00	2.90	2.00	2.15		9.02	9.00	23.38	20.80
	Griffith & Boyd Co., Balto., Md.											
21659	Ammoniated Bone	Travers	1.77	2.00	2.89	2.00	1.95		8.84	8.00	21.36	19.60
21721	Cereal Plant Food	Colora	.89	1.00	2.55	2.00	2.15		8.04	8.00	16.62	15.60
21528	Farmers' Improved Phosphate	Baltimore	.92	1.00	2.53	2.00	3.35	1.00	7.44	7.00	16.48	14.80
21529	Farmer's Potato Manure	Baltimore	.94	1.00	9.14	9.00	1.47		7.57	8.00	22.57	22.60
21514	Fish, Bone and Potash	Baltimore	1.42	1.75	2.88	3.00	2.65		8.57	7.00	19.90	18.40
21725	Fish, Bone and Potash	Salisbury	1.77	1.75	2.70	3.00	2.27		7.39	7.00	19.56	18.40
21637	Gem Phosphate	Philopolis			3.50	3.00	2.22		7.71	6.50	10.88	8.85
21522	Gilt Edge Crop Guano	Baltimore	1.89	2.00	9.96	10.00	1.70		9.14	8.00	29.17	27.60
21602	Harvest Queen	Hematite	.89	1.25	2.93	3.00	2.32		8.50	9.00	17.62	16.10
21530	High Grade Acid Phosphate	Baltimore					2.25	1.00	14.16	14.00	13.19	12.80
21531	New Grass and Grain Grower	Baltimore	1.81	1.25	3.03	3.00	2.42		7.91	7.00	20.73	16.40
21532	New Peerless Fertilizer	Baltimore	1.04	1.25	3.28	2.00	2.22		8.35	8.00	18.35	16.60
21712	Original Super-Phosphate	Baltimore					3.40		11.04	12.00	10.62	10.80
21533	Peerless Fertilizer	Baltimore	.55	.35	2.61	2.00	2.37		8.87	8.00	16.40	13.00
21722	Pure Dissolved Animal Bone	Elk Mills	2.87	2.50			2.42		9.68	10.00	24.07	22.00
21523	Pure Fine Ground Bone Meal	Baltimore	4.71	4.00			*19.03	*22.00			30.26	29.20
21575	Royal Potash Guano	Baltimore	1.06	1.00	4.08	4.00	2.32		8.30	8.00	19.21	17.60
21576	Soft Ground Bone Meal	Baltimore	3.40	3.00			*11.78	*13.00			20.67	19.80
21577	Soluble Mixture 12 & 5	Baltimore			5.58	5.00	1.15		12.02	12.00	16.63	15.80

a Contains Nitrate. *Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	Griffith & Boyd Co., Balto., Md.											
21537	Special Grain Grower	Baltimore	.....	.....	2.54	2.00	1.80	....	9.52	10.00	$11.47	$11.00
21702	Special Guano	Baltimore	2.20	2.00	6.00	5.00	2.25	.....	7.06	8.00	24.17	22.60
21534	Spring Crop Grower	Baltimore	1.96	2.00	5.17	4.50	3.15	.....	6.40	6.50	21.95	20.30
21673	Stable Manure Substitute	Baltimore	4.15	3.50	4.03	4.00	2.67	.....	5.89	5.00	28.77	24.00
21660	Standard Potash	Easton	.....	.....	3.31	4.00	2.15	.....	9.71	10.00	12.48	13.00
21593	Valley Fertilizer	Westminster	.68	.50	2.84	3.00	1.97	1.00	8.84	8.00	16.96	15.00
21638	XX Potash Manure	Philopolis	.....	.....	5.02	5.00	2.30	.....	9.51	10.00	14.04	14.00
	Griffith & Turner Co., Balto., Md.											
21788	Ammoniated Alkaline Plant Food	Baltimore	1.57	1.00	3.00	1.50	2.77	1.00	.6.89	6.50	18.66	13.70
21789	Ammoniated Butchers Bone Phos.	Baltimore	.85	1.25	2.36	1.50	2.50	1.00	8.18	9.00	16.58	17.70
21716	Animal Bone Phosphate	Baltimore	1.79	2.50	3.07	1.50	2.00	1.00	8.97	10.00	21.79	23.90
21546	High Grade Acid Phosphate	Baltimore	.....	.....	.....	.....	2.17	.....	14.06	14.00	13.08	12.60
21792	Pure Raw Bone Meal	Baltimore	4.66	4.50	.....	.....	*23.43	*21.00	.....	.....	32.70	30.60
21790	Soft Ground Bone	Baltimore	2.10	2.00	.....	.....	*22.97	‡50.00	.....	.....	22.18	38.00
21791	Special Potato Mixture	Baltimore	1.13	1.00	3.51	5.00	.97	.....	8.21	8.00	18.27	18.60
	E. Hammond, Libertytown, Md.											
21852	Old Liberty Ammoniated Bone	Walkersville	.96	1.00	4.28	4.00	1.27	1.00	7.03	7.00	17.07	16.80
	Hampstead Fertilizer Co., Hampstead, Md.											
21774	Buyer's Mixture	Lineboro (H. T. W.)	1.06	1.00	3.65	3.00	.82	.....	11.61	9.00	22.15	17.80
21911	Grain and Grass Grower	Hampstead	2.03	2.00	2.43	2.00	2.12	.....	7.79	8.00	20.75	19.60
21912	Honesty	Hampstead	1.06	1.00	2.27	2.00	1.05	.....	7.94	8.00	16.46	15.60
21913	Standard	Hampstead	1.27	1.25	3.26	3.00	.82	.....	10.24	10.00	20.96	20.00

21913	Standard	Hampstead										
	S. M. Hess & Bro., Phila., Pa.											
22066	Ammoniated Super-Phosphate	Baltimore	2.05	2.00	2.23	2.00	.87		8.41	8.00	$20.87	$19.60
22067	Farmers' Cereal King	Baltimore			3.20	3.00	.37		12.53	12.00	14.55	13.80
22700	Ground Bone	Leslie	3.82	4.00			*20.61	*20.59			27.65	28.35
21914	Keystone Phosphate	Union Mills	1.19	1.00	1.18	1.00	1.22		8.04	8.00	16.08	14.60
21831	Peerless Phosphate	Baltimore			5.07	5.00	.40		12.29	12.00	16.21	15.80
22011	Soluble Phosphate and Potash	Myersville			2.25	2.00	.92		10.89	10.00	12.23	11.00
21832	Special Compound	Baltimore	1.21	1.00	4.29	4.00	1.02		8.16	8.00	19.33	17.60
21833	Wheat and Grass Manure	Baltimore	1.06	1.00	2.49	2.00	1.27		8.37	8.00	17.28	15.60
	Home Fert. & Ch. Co., Balto., Md.											
22049	Bone and Potash	Baltimore			5.01	5.00	1.60	1.00	10.18	10.00	14.49	14.20
21892	Boykin's Cereal Fertilizer	Baltimore	a1.93	2.00	3.16	2.00	2.05		8.12	8.00	21.44	19.60
22076	Boykin's Eagle Phosphate	Baltimore	1.21	1.00	1.76	1.00	2.05		7.34	8.00	15.43	14.60
22740	Boykin's H. G. Acid Phosphate	Baltimore					3.20	1.00	13.49	14.00	12.78	12.80
22706	Everybodys Fertilizer	Pocomoke City	1.23	1.00	2.23	2.00	2.25		8.09	9.00	17.76	16.80
21893	Farmers' Choice	Baltimore	1.04	1.00	3.57	4.00	1.52		8.01	7.00	17.95	16.40
21894	Gilt Edge Crop Grower	Baltimore	1.95	2.00	4.28	4.00	1.80		10.57	10.00	25.48	24.00
21895	Matchless Guano	Baltimore	2.01	2.00	4.87	4.00	1.60		7.44	8.00	22.48	21.60
22039	Victor Phosphate	Baltimore			3.09	3.00	2.27		8.43	9.00	11.13	11.10
	W. H. Hood, Mt. Airy, Md.											
21915	Special Mixture	Mt. Airy	1.11	1.00	2.06	2.00	2.30		10.02	9.00	19.44	16.80
	Horsey, Roe & Co., Greensboro, Md.											
21978	Horsey's Wheat & Grain Mixture	Greensboro	1.25	1.00	3.56	3.00	5.12	5.00	8.89	8.00	21.28	18.60
	Hubbard Fert. Co., Baltimore, Md.											
21884	Acid Phosphate 14%	Gaithersburg					1.87		15.67	14.00	14.47	12.60
21885	Acid Phosphate 16%	Dickerson					.22		16.07	16.00	14.50	14.40
21834	Alkaline 12 & 5	Baltimore			5.01	5.00	1.07		11.17	12.00	15.27	15.80
21766	Alkaline 12 & 5	Airey (C. K.)			4.74	5.00	2.45		12.44	12.00	16.43	15.80
22086	Alkaline 12 & 3	Baltimore			3.42	3.00	2.37		10.16	12.00	13.03	13.80
22701	B. & P. 10—2	Baltimore			2.30	2.00	1.77	1.75	10.34	10.00	11.96	11.35
21835	Climax Phosphate	Baltimore	1.28	1.00	4.24	4.00	1.30	1.50	7.02	7.00	18.30	17.00
21836	Columbia Gem	Baltimore	.53	.50	2.47	2.00	1.47	1.75	7.22	8.00	13.84	14.30
22087	Crescent Phosphate	Baltimore					1.40	1.75	12.71	10.00	11.72	9.35
21957	Farmers' I. X. L.	Dawsonville	2.12	2.00	2.91	2.00	1.45	1.75	7.24	8.00	20.66	20.30
21964	Jewel Phosphate	Cardiff	1.26	1.25	5.50	5.00	.70		7.22	8.00	19.48	19.60
21996	Oriental Phosphate	Hydes	1.35	1.00	2.91	2.00	1.52		7.10	8.00	17.44	15.60
21806	Special Mixture	Baltimore			4.41	4.00	1.85	1.75	9.42	10.00	13.26	13.70
21837	Standard Phosphate	Baltimore	2.12	2.00	3.72	3.00	1.32	1.75	7.14	8.00	21.30	21.30

a Contains Nitrate. *Total Phosphoric Acid. ‡"Bone Phosphate."

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	M. P. Hubbard & Co., Balto., Md.											
21853	Celebrated Phosphate	Walkersville	1.71	2.00	3.16	2.00	1.52	1.00	7.84	8.00	$20.05	$20.00
21854	Excelsior Super-Phosphate	Walkersville	.94	1.00	2.42	2.00	1.55	1.50	7.77	8.00	16.12	16.20
21997	Farmers' Acme	Corberts	.96	1.00	4.02	4.00	1.00	1.00	8.87	8.00	18.90	18.00
21896	Fish, Bone and Potash	Baltimore	.39	.25	1.82	1.00	.70	1.00	5.31	6.00	10.03	9.60
21937	Harvest King Phosphate	Greensboro	1.13	1.00	3.32	3.00	.72	1.00	8.78	9.00	18.67	18.20
21897	Harvest King Phosphate	Baltimore	1.04	1.00	3.40	3.00	.82	1.00	9.13	9.00	18.85	18.20
22043	Maloney's Spe. Wh. & Grass Mix.	Baltimore	1.81	2.00	5.03	5.00	.72	1.50	10.07	9.00	24.64	24.40
21807	Old Economy	Baltimore	.52	.50	2.89	2.00	.95	1.00	8.37	8.00	15.39	14.00
21904	Raw Bone Meal	Baltimore	4.35	4.00	...	.....	*18.65	40.00	.....	.....	28.59	40.00
22088	Soluble Rock and Potash	Baltimore	.....	.....	3.06	2.00	1.52	1.50	10.15	10.00	12.50	11.30
21898	Soluble S. C. Phosphate	Baltimore	.....	.....	.....	.....	1.05	1.00	13.69	14.00	12.53	12.80
21985	Special Potato and Tomato Fer.	Perryman	2.01	2.00	4.54	5.00	.55	1.00	7.31	7.00	21.57	21.80
21905	XXXX Dissolved Phos. & Potash	Baltimore	.....	.....	4.74	5.00	.92	1.50	12.61	12.00	16.27	16.10
	S. L. Lamberd Co., Baltimore, Md.											
22093	Boss Fertilizer	Baltimore	1.88	2.00	4.36	4.50	2.95	.....	7.09	7.00	21.57	20.90
22094	Truck Phosphate	Baltimore	4.13	4.00	3.09	4.00	4.05	.....	6.63	7.00	29.19	28.40
	Lister's Agrl. Chem. Works, Newark, N. J.											
22026	Atlas Brand Alkaline	Bellevue	.....	.....	5.48	5.00	.50	.....	12.24	12.00	16.60	15.80
21820	Bone Meal	Baltimore	4.27	3.25	.....	.....	*23.25	*22.88	.....	.....	31.03	26.73
21821	Buyer's Choice Acid Phosphate	Baltimore	.....	.....	.....	.....	.82	.....	14.28	14.00	13.01	12.60
21740	Cel. Gr. Bone & Tank. Acidulated.	Oxford (G. M. W.)	4.02	3.25	.....	.....	*12.19	*12.00	.....	.....	23.39	20.20
21843	Corn and Potato Fertilizer	Baltimore	2.08	2.00	3.38	3.00	1.02	.....	8.29	8.00	22.06	20.60
22044	Crescent Complete Manure	Baltimore	2.18	2.00	4.77	5.00	1.05	.....	8.51	8.00	24.12	22.60

21916	Dissolved Phosphate and Potash.	Sykesville	.....	.....	2.38	2.00	1.05	.....	10.78	10.00	$12.29	$11.00
21965	"G" Brand	Cardiff	1.21	1.00	4.01	4.00	1.17	.....	8.25	8.00	19.22	17.60
22052	Golden Sheaf	Baltimore	.63	.50	2.08	2.00	1.10	.....	8.38	8.00	15.10	13.60
21822	Harvest Queen Phosphate	Baltimore	1.57	1.50	2.21	2.00	1.32	.....	9.12	9.00	19.96	18.80
22089	H. G. Acid Phosphate	Baltimore	.....	.....	.....	.....	.37	.....	16.51	16.00	14.93	14.40
22045	Special Crop Producer	Baltimore	1.18	1.00	1.35	1.00	1.15	.....	7.15	7.00	15.11	13.40
21886	Standard Pure Bone	Gaithersburg	2.83	3.00	2.36	2.00	1.42	.....	9.37	9.00	25.49	24.80
21966	Special Wheat Fertilizer	Cardiff	2.03	2.00	3.45	3.00	1.30	.....	8.12	8.00	21.83	20.60
22714	U. S. Super-Phosphate	Baltimore	1.31	1.25	2.09	2.00	1.22	.....	8.26	8.00	17.73	16.60
21998	Wheat and Rye Fertilizer	Gittings	2.17	2.00	2.41	2.00	1.20	.....	8.36	8.00	21.60	19.60
	McComas Bros., Bel Air, Md.											
21986	High Grade Fertilizer	Bel Air	a1.53	1.50	b5.04	5.00	1.00	.....	6.02	6.00	19.79	19.20
21987	Standard Fertilizer	Bel Air	1.13	1.00	2.15	2.00	1.47	.....	7.97	8.00	16.82	15.60
	D. B. Martin Co., Philadelphia, Pa.											
21958	Acid Phosphate	Silver Spring	.....	.....	.....	.....	.77	.....	13.11	14.00	11.95	12.60
21823	Bull Head Fertilizer	Baltimore	2.66	3.00	3.03	3.00	.72	.....	9.24	8.00	25.05	24.60
22702	Claremont Vegetable Grower	Leslie	2.80	3.00	4.89	5.00	1.02	.....	8.51	7.00	26.71	25.40
22041	Corn and Cereal Special	Baltimore	1.67	2.00	2.69	2.00	1.55	.....	8.04	8.00	19.64	19.60
21938	Crop Producer	Williston	1.43	1.25	.....	.....	2.55	.....	10.07	10.00	18.82	17.00
21808	Dissolved Organic Compound	Baltimore	1.28	1.25	2.61	2.00	1.52	.....	9.08	9.00	19.24	17.80
21959	Dissolved Slaughter House Bone.	Seneca	1.28	1.25	.....	.....	2.80	.....	9.73	10.00	17.92	17.00
22723	Gilt Edge Potato Manure	Baltimore	2.44	3.00	8.62	10.00	1.22	.....	7.85	7.00	28.29	30.40
21887	Old Virginia Favorite	Gaithersburg	2.17	2.00	2.39	2.00	1.47	.....	8.41	8.00	21.75	19.60
21838	One, Eight and Four	Baltimore	1.04	1.00	4.48	4.00	1.57	.....	8.03	8.00	18.83	17.60
21839	Potash and Soluble Phosphate	Baltimore	.....	.....	4.48	5.00	1.10	.....	12.11	12.00	15 60	15.80
21939	Pure Dissolved Animal Bone	Centreville	2.15	2.00	.....	.....	1.32	.....	12.04	12.00	23.58	22.40
21960	Pure Ground Bone	Silver Spring	2.12	2.00	.....	.....	*23.37	*22.00	.....	.....	22.50	21.20
21751	Pure Ground Bone	New Market (T H E)	2.68	3.00	.....	.....	*23.49	*22.00	.....	.....	24.81	25.20
22095	Pure Raw Bone Meal	Baltimore	4 18	4.50	.....	.....	*21..04	*21.00	.....	.....	29.34	30.60
21840	Special Compound	Baltimore	1.77	2.00	5.03	5.00	1.47	.....	8.68	8.00	23.12	22.60
21841	Special Potato Manure	Baltimore	1.06	1.00	4.73	5.00	.97	.....	8.37	8.00	19.40	18.60
22715	Standard Phosphate	Ellicott City	2.13	2.00	3.54	3.00	3.95	.....	10.60	9.00	26.36	21.80
21888	Sure Grower	Gaithersburg	1 23	1.00	1.28	1.00	.85	.....	8.03	8.00	16.18	14.60
	Martin & White Co., Balto., Md.											
21967	Acid Phosphate 14%	Cardiff	.....	.....	.....	.....	2.00	.....	14.23	14.00	13 21	12.60
21844	Acid Phosphate 16%	Baltimore	.....	.....	.....	.....	1 35	.....	15.04	16.00	13.81	14.40
21940	Ammoniated Bone and Potash	Greensboro	1 03	1.00	2.09	2.00	1.82	.....	8.13	8.00	16.70	15.60
22061	Big Crop Grower	Baltimore	2.02	2 00	2.24	2.00	1.27	.....	8.15	8.00	20.61	19.60
21809	Bone Meal	Baltimore	2.75	3.00	.....	.....	*23 83	*23.00	.....	.....	25 30	25.80

a Contains Nitrate. b As Sulfate. *Total Phosphoric Acid. ‖ "Bone Phosphate."

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	Martin & White Co., Balto., Md.											
21783	Busteed's Special Mixture	Centreville (Z. C. B)	.73	1.00	3.44	3.00	1.35	.....	9.17	9.00	$17.90	$17.80
22068	Caroline Special	Baltimore	.90	1.00	3.01	3.00	1.85	.....	7.68	9.00	16.57	17.80
21941	Cereal Grower	Greensboro	.63	.50	2.14	2.00	1.17	.....	8.03	8 00	14 77	13.60
21810	Claude Park's Big Chief	Baltimore	a1.14	1.00	2.13	2.00	1.90	.....	8.38	8 00	17.51	15.60
21801	Claude Park's Fearless	Baltimore	.51	.50	1.75	2 00	.85	.....	8.02	8.00	13.75	13.60
22053	Fish Guano	Baltimore	1.79	2.00	3.09	3.00	1.50	.....	8.30	8.00	20.81	20.60
22064	Fruit Special	Baltimore	1.96	2.00	4.96	5.00	1.95	.....	8.11	8.00	23.31	22.60
22720	Grain and Tomato Grower	Baltimore	.77	1.00	5.54	5.00	.31	.....	7.02	7.00	17.16	17.40
21906	H. G. Phosphate and Potash	Baltimore	.....	.....	4.92	5.00	.90	.....	12.02	12.00	15.92	15.80
21943	Horsey's Mixture	Greensboro	1.55	1.50	3.36	3.00	2.87	.....	8.02	8.00	20.33	18.60
21942	McKenney's Compound	Centreville	1.43	1.50	2.61	2.50	2.70	.....	9.64	9.50	20.98	19.90
22027	Phosphate and Potash	Secretary	.....	.....	2.49	2.00	1.15	.....	11.31	10.00	12.90	11.00
21802	Royal Crop Grower	Baltimore	.96	1.00	3.74	4.00	1.47	.....	7.87	8.00	17.61	17.60
21784	Special Mixture	Millington (A. C.)	1.95	2.00	5.52	5.00	3.22	4.00	9.69	11.50	26.24	28.40
22708	Wheat Grower	Baltimore	.....	.....	5.03	5.00	.65	.....	7.69	8.00	12.08	12.20
21944	Wheat Special	Greensboro	.....	.....	4.52	5.00	.92	.....	10.06	10.00	13.75	14.00
	F. Mehring, Bruceville, Md.											
21855	Acid Phosphate	Walkersville	.....	.....	.....	.....	2.70	1.00	18.40	15.00	17.10	13.70
21917	Dissolved Raw Bone	Detour	2.03	2.00	.....	.....	1.32	1.00	16.02	14.00	27.87	25.20
22012	Emmert's Half and Half	Williamsport	.92	.75	2.21	2.00	2.27	1.00	14.63	13.00	24.36	21.00
21918	General Crop Grower	Detour	1.11	1.00	2.11	1.50	4.35	1.00	10.57	10.00	20.97	17.90
21856	Potash and Phosphoric Acid	Walkersville	.....	.....	2.04	2.00	2.90	1.00	13.10	12.00	14.41	13.00
21919	Twenty Six Dollar Phosphate	Detour	a1.94	1.50	2.01	1.50	5.05	1.00	11.94	10.00	26.12	19.90

	Miller Fertilizer Co., Balto., Md.											
21999	Acid Phosphate	Glencoe	.....	.....	.....	.....	.72	.50	13.91	14.00	$12.66	$12.70
22728	Acid Phosphate	Alesia (E. J. R.)	.....	.....	.....	.....	.75	.50	15.24	14.00	13.87	12.70
21988	Anmoniated Dissolved Bone	Forest Hill	2.18	2.00	3.43	2.00	.75	.....	8.03	8.00	22.09	19.60
21826	Clinch Phosphate	Baltimore			2.65	2.00	1.17	.50	9.27	10.00	11.22	11.10
21857	Club Brand	Hagerstown	.60	.50	2.33	2.00	1.02	.50	8.83	8.00	15.74	13.80
22000	Dissolved Raw Bone	Glencoe	2.71	2.50	.....	.....	1.87	1.00	12.03	11.00	26.03	23.60
21961	Farmer's Profit	Clarksville	1.08	1.00	5.44	5.00	.75	.50	8.13	8.00	19.82	18.80
21989	Ground Bone	Forest Hill	4.32	4.50	.....	.....	*21.57	*21.00	.....	.....	30.22	30.60
21858	Harvest Queen	Hagerstown	1.38	1.25	2.78	2.75	1.35	.50	8.56	9.00	19.11	18.75
22001	Hustler Phosphate	Philopolis	1.08	1.00	1.39	1.00	1.45	.....	7.49	8.00	15.28	14.60
22716	M. B. S.	Ellicott City	1.08	1.00	3.27	3.00	.90	.50	6.94	7.00	16.28	15.60
22002	Pimlico Brand	Cockeysville	1.95	2.00	9.42	10.00	1.12	.....	8.60	8.00	27.99	27.60
22057	Potash Mixture	Baltimore			5.27	5.00	.95	.50	9.89	10.00	14.36	14.10
21990	Potato and Vegetable Grower	Forest Hill	2.05	2.00	4.64	4.00	.95	.....	8.14	8.00	22.99	21.60
22003	Special Tobacco Grower	Philopolis	1.96	2.00	4.30	4.00	1.27	.....	8.05	8.00	22.31	21.60
21991	Standard Phosphate	Forest Hill	3.07	3.00	3.47	3.00	.85	.....	8.27	8.00	26.01	24.60
21859	W. G. Phosphate	Hancock	.68	.50	1.42	1.00	.95	.50	7.66	7.00	13.71	11.60
	Miller & Cramer, Woodsboro, Md.											
21860	Maryland Sun Guano	Woodsboro	.56	.50	1.06	1.00	1.87	1.00	7.77	8.00	13.37	13.00
	V. W. Nicodemus, Monrovia, Md.											
21861	Sullivan's S. S. S	Monrovia	2.01	2.00	2.27	2.00	.87	.....	8.58	9.00	20.96	20.80
	G. Ober & Sons Co., Baltimore, Md.											
21945	Dissolved Animal Bone	Denton	3.28	3.00	.....	.....	2.82	.....	12.82	10.00	29.63	24.00
21776	Dissolved Animal Bone	Denton (E. M. N.)	3.38	3.00	.....	.....	2.35	.....	13.19	10.00	30.29	24.00
22742	Dissolved Bone Phosphate	.....	.....	.....	.....	.....	1.60	.....	15.39	14.00	14.17	12.60
21775	Dissolved Bone Phosphate	Denton (E. M. N.)	.....	.....	.....	.....	2.72	.....	14.02	14.00	13.16	12.60
22746	Dissolved Bone Phos. and Potash	.....	.....	.....	2.52	2.00	2.01	.....	10.01	10.00	12.02	11.00
22741	Farmers' Mixture	.....	a1.09	1.00	2.43	2.00	2.17	.....	8.88	9.00	18.32	16.80
21814	Farmers' Standard Am. Phos	Baltimore	a2.64	2.00	2.61	2.00	2.02	.....	9.06	9.00	24.85	20.80
21946	Ox Head Mixture	Centreville	.61	.50	2.24	2.00	1.15	.....	8.08	8.00	14.84	13.60
21804	Pure Bone Meal	Baltimore	3.07	3.00	.....	.....	*24.43	*22.00	.....	.....	26.94	25.20
21777	Pure Bone Meal	Denton (E. M. N.)	3.16	3.00	.....	.....	*24.67	*22.00	.....	.....	27.44	25.20
21815	Pure Raw Bone Meal	Baltimore	4.44	4.50	.....	.....	*22.57	*21.00	.....	.....	31.30	30.60
21741	Special Mixture	White Hall (P.B.G.)	1.81	2.30	6.92	10.00	2.02	.....	12.26	10.00	29.68	31.20
22004	Stag Guano	Corberts	a1.01	1.00	4.46	4.00	1.72	.....	8.90	8.00	19.87	17.60
21846	Standard Potash Compound	Baltimore	.....	.....	5.26	5.00	1.85	.....	11.92	12.00	16.36	15.80

a Contains Nitrate. * Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	Patapsco Guano Co., Balto., Md.											
22722	Baltimore Soluble Phosphate	Baltimore	.....	.....	2.72	2.00	.62	.....	11.29	11.00	$13.00	$11.90
21842	Coon Brand Guano	Baltimore	1.13	1.00	3.20	3.00	.82	.....	9.72	9.00	19.71	17.80
21847	Enterprise Phosphate	Baltimore	.....	.....	5.07	5.00	.47	.....	12.20	10.00	16.14	14.00
21759	Enterprise Phosphate	Cecilton (L. W. D.)	.....	.....	5.20	5.00	.35	.....	10.81	10.00	15.00	14.00
22078	Grange Mixture	Baltimore	2.13	2.00	2.49	2.00	1.10	.....	8.34	8.00	21.46	19.60
21811	Patapsco Alkaline Plant Food	Baltimore	.....	.....	4.35	5.00	1.20	.....	8.35	8.00	12.11	12.20
21947	Patapsco Blood, Bone & Potash	Centreville	.61	.50	2.32	2.00	1.02	.....	8.34	8.00	15.18	13.60
22038	Patapsco Fish Guano	Snow Hill	2.46	2.00	2.34	2.00	1.35	.....	6.06	6.00	19.99	17.20
21805	Patapsco Grain & Grass Producer	Baltimore	1.16	1.00	4.37	4.00	1.37	.....	8.50	8.00	19.76	17.60
22058	Patapsco H. G. Phos. & Potash	Baltimore	.....	.....	4.87	5.00	.50	.....	11.02	11.00	14.89	14.90
22040	Patapsco Phospho Potash	Baltimore	.....	.....	3.02	3.00	.37	.....	6.48	6.00	8.92	8.40
22005	Patapsco Pure Diss. S. C. Phos	Cockeysville	.....	.....	.....	.....	1.25	.....	15.54	14.00	14.24	12.60
22724	Patapsco Pure Ground Bone	Baltimore	4.30	4.50	.....	.....	*22.68	*20.59	.....	.....	30.81	30.35
21948	Patapsco Soluble Phos. and Pot	Centreville	.....	.....	2.32	2.00	.70	.....	10.23	10.00	11.67	11.00
21848	Patapsco Special Wheat Com	Baltimore	2.41	2.25	2.53	2.50	2.27	5.00	11.44	9.00	26.81	24.30
21949	Peninsula Potash Mixture	Denton	.....	.....	5.65	5.00	.65	.....	12.12	12.00	16.69	15.80
22006	Sea Gull Guano	Cockeysville	1.06	1.00	1.27	1.00	1.07	.....	8.30	8.00	15.90	14.60
	Peerless Fert. Co., Chestertown, Md.											
21979	Bone Special	Chestertown	.78	1.00	4.24	3.00	.52	.....	8.01	9.00	17.18	17.80
21980	Imperial Compound	Chestertown	.90	1.00	4.83	4.00	.50	.....	8.11	8.00	18.36	17.60
21907	Pennington's Mixture	Baltimore	.51	.50	2.82	3.00	.77	.....	7.68	8.00	14.39	14.60
	Piedmont-Mt. Airy Guano Co., Baltimore, Md.											
22013	Beckley's Bone Mixture	Lydia	2.15	1.50	.....	.....	4.57	.....	11.84	14.00	24.64	22.80

22014	Beckley's Wheat and Clover	Halfway	.70	1.00	4.03	4.00	.82	.....	12.38	10.00	$22.02	$20.00
21899	Insula Guano	Baltimore	.52	.50	2.94	2.00	.75	.....	5.55	7.00	11.98	12.40
21900	Levering's Ammoniated Bone	Baltimore	1.33	1.00	4.08	3.00	1.07	.....	6.92	9.00	18.13	17.80
22707	Levering's Excelsior	Baltimore	.90	1.00	2.44	1.00	1.22	.....	8.23	8.00	16.41	14.60
22007	Levering's Harvest Queen	Freeland	1.04	1.00	3.59	2.00	.65	.....	7.46	8.00	16.96	15.60
22046	Levering's I. X. L. Crop Grower	Baltimore	.....	.....	2.76	3.00	.25	.....	10.97	10.00	12.68	12.00
21901	Levering's Standard	Baltimore	2.29	2.00	4.07	3.00	.92	.....	7.88	8.00	23.06	20.60
21889	Peerless Phosphate	Dickerson	1.01	1.00	1.84	1.50	1.10	1.00	8.29	8.00	16.27	15.50
22008	Piedmont Acid Phosphate 14%	Glencoe	.....	.....	.....	.....	.57	.....	14.30	14.00	12.98	12.60
22745	Piedmont Bone Meal	Baltimore	4.36	4.00	.....	.....	*23.95	*21.00	.....	.....	31.81	28.60
21920	Piedmont Economy	Mt. Airy	.36	.25	2.15	2.00	.87	.....	11.12	10.00	17.28	15.00
22081	Piedmont Farmers' Bone & Pot.	Baltimore	.....	.....	2.18	2.00	.62	.....	9.90	10.00	11.21	11.00
21902	Piedmont Farmers' Favorite	Baltimore	1.18	1.00	4.28	4.00	1.05	.....	7.14	8.00	17.99	17.60
22009	Piedmont H. G. Am. Bone & Pot.	Glencoe	2.64	3.00	4.17	3.00	.55	.....	5.87	8.00	21.99	24.60
21903	Piedmont Perfection Guano	Baltimore	1.74	2.00	5.44	5.00	.92	.....	8.20	8.00	22.61	22.60
22010	Piedmont Plow Brand	Freeland	1.74	2.00	2.01	2.00	.62	.....	9.01	8.00	20.03	19.60
22703	Piedmont Pure Raw Bone Mix	Elkton	1.27	1.25	2.41	2.00	3.77	.....	8.01	8.00	18.61	16.60
22082	Piedmont Special Potash Mixture	Baltimore	.....	.....	5.10	5.00	.55	.....	8.69	10.00	13.03	14.00
21921	Piedmont Success	Mt. Airy	.19	.25	5.39	5.00	.55	.....	10.02	9.00	18.39	16.80
21812	Piedmont Wheat Compound	Baltimore	.....	.....	5.01	5.00	.57	.....	12.25	12.00	16.15	15.80
	Pollock Fertilizer Co., Balto., Md.											
22029	Ammoniated Super-Phosphate	Travers	1.93	2.00	2.05	2.00	1.10	.....	8.43	8.00	20.33	19.60
22050	Crop Invigorator	Baltimore	1.13	1.00	4.23	4.00	1.10	.....	8.07	8.00	18.87	17.60
22079	Dissolved Animal Bone	Baltimore	2.64	2.50	.....	.....	2.12	.....	12.40	12.00	26.29	24.40
22080	Dissolved Phosphate and Potash	Baltimore	.....	.....	5.75	4.00	.37	.....	10.63	10.00	15.39	13.00
22059	Dissolved S. C. Phosphate	Baltimore	.....	.....	.....	.....	.52	.....	14.61	14.00	13.25	12.60
22083	Owl Brand Guano	Baltimore	.61	.50	1.73	1.50	.95	.....	7.48	7.00	13.53	11.90
22096	Soft Ground Bone	Baltimore	3.26	3.00	.....	.....	*14.49	*13.73	.....	.....	21.73	20.24
22065	Soluble Bone Phosphate	Baltimore	.....	.....	2.32	2.00	.40	.....	10.57	10.00	11.91	11.00
21908	Special Potato and Tobacco Fer.	Baltimore	2.13	2.00	4.05	4.00	1.40	.....	8.08	8.00	22.83	21.60
22015	Special Wheat Grower	Lime Kiln	1.04	1.00	2.12	2.00	1.32	.....	8.40	8.00	16.89	15.60
22060	Star Alkaline Phosphate	Baltimore	.....	.....	5.01	5.00	.60	.....	12.22	12.00	16.13	15.80
22084	Superior Corn & Tomato Fertilizer	Baltimore	1.02	1.00	2.19	2.00	1.00	.....	7.86	8.00	16.10	15.60
22051	Victor Brand Phosphate	Baltimore	.....	.....	1.28	1.00	.72	.....	10.02	9.00	10.44	9.10
	Ramsburg Fert. Co., Frederick, Md.											
21862	Alkaline Phosphate	Monrovia	.....	.....	2.19	2.00	3.22	.....	9.16	10.00	11.07	11.00
21863	Ammoniated Bone Phosphate	Frederick	1.08	1.00	2.09	2.00	2.65	.....	10.09	10.00	19.58	18.00
21745	Ammoniated Bone Phosphate	Brookeville (D.F.O.)	1.26	1.00	2.32	2.00	2.36	.....	10.01	10.00	20.31	18.00
21864	Excelsior Plant Food	Monrovia	a1.69	2.00	2.35	2.00	3.65	.....	9.13	9.00	21.53	20.80

*Total Phosphoric Acid. a Contains Nitrate.

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							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	Ramsburg Fert. Co., Frederick, Md.											
21743	Excelsior Plant Food	Brookeville (D.F.O.)	a1.82	2.00	2.52	2.00	3.25	.....	9.18	9.00	$22.12	$20.80
21865	Old Virginia Compound	Monrovia	1.23	1.21	3.90	4.00	3.00	.....	7.95	8.00	19.56	18.44
21771	Old Virginia Compound	Bartholows (W E M)	1.57	1.21	3.56	4.00	2.25	.....	9.71	8.00	22.39	18.44
21866	Queen	Monrovia	.54	.50	1.13	1.00	4.45	.....	8.72	8.00	15.53	12.60
21867	Special Rock and Potash	Monrovia	.....	.....	4.36	5.00	2.27	.....	9.65	10.00	13.50	14.00
21868	Super-Phosphate	Frederick	.....	.....	.....	.....	3.22	.....	13.73	14.00	13.00	12.60
21869	William's Wheat & Grass Fer.	Monrovia	1.08	1.00	2.12	2.00	2.28	.....	10.36	8.00	19.78	15.60
21770	William's Wheat & Grass Fer.	Bartholows (W E M)	1.11	1.00	2.20	2.00	2.27	.....	10.39	8.00	20.02	15.60
	Rasin-Monumental Co., Balto., Md.											
21779	Buyers' Mixture	Philopolis	a2.03	2.00	b6.35	6·00	1.35	.....	16.74	16.00	36.37	34.40
21870	Rasin's Acid Phosphate	Hagerstown	.....	.....	.....	.....	1.70	1.00	15.39	14.00	14.19	12.80
21962	Rasin's Best Wh. & Gr. Producer	Ednor	1.38	1.50	3.35	3.00	1.65	1.00	8.34	8.00	19.54	19.00
21871	Rasin's Bone and Potash	Walkersville	.....	.....	2.15	2.00	2.60	1.00	10.45	10.00	12.08	11.20
21872	Rasin's Dissolved Bone	Hagerstown	2.04	2.00	.....	.....	4.62	1.00	10.51	10.00	22.62	20.40
22016	Rasin's Empire Guano	Graceham	2.02	2.00	2.19	2.00	1.47	1.00	7.92	8.00	20.36	20.00
21873	Rasin's Half & Half Mixture	Hagerstown	.....	.....	2.66	3.00	5.35	1.00	6.51	6.00	9.59	8.60
21909	Rasin's H. G. Bone and Potash	Baltimore	.....	.....	5.43	5.00	1.82	1.00	12.09	12.00	16.67	16.00
21754	Rasin's H. G. Bone and Potash	Aireys (W. S. H.)	.....	.....	5.53	5.00	1.72	1.00	11.59	12.00	16.30	16.00
21849	Rasin's I. X. L. Fertilizer	Baltimore	1.09	1.00	3.02	3.00	2.37	1.00	8.26	9.00	18.24	18.20
21922	Rasin's National Crop Compound	Woodbine	1.14	1.00	4.20	4.00	1.55	1.00	9.35	8.00	20.60	18.00
21963	Rasin's Pure Raw Bone	Seneca	4.57	4.00	.....	.....	*21.36	*22.50	.....	.....	31.10	29.50
22737	Rasin's Royal Fish, Bone & Pot		2.15	2.00	3.30	3.00	2.05	1.00	7.65	8.00	21.90	21.00
22738	Rasin's Special Bone and Potash		.....	.....	5.07	5.00	1.55	1.00	10.21	10.00	14.57	14.20

21755	Rasin's Special Bone and Potash.	Aireys (S. B. H.)	.....	.....	5.11	5.00	1.42	1.00	10.25	10.00	$14.62	$14.20
22743	Rasin's Spec. Fish and Pot. Mix.	Laurel	1.60	2.00	3.05	3.00	1.07	1.00	6.09	6.00	17.19	18.60
21910	Rasin's Special Formula	Baltimore	.....	.....	3.10	3.00	1.32	1.00	5.84	6.00	8.62	8.40
22739	Rasin's Triple Bone and Potash.	Baltimore	.....	.....	6.27	6.00	1.97	1.00	13.30	13.00	18.63	17.90
22721	Rasin's Vegetable Special	Baltimore	a1.88	2.00	b10.13	10.00	1.42	1.00	9.42	8.00	31.55	30.00
21981	Rasin's United Grain Grower	Crumpton	1.26	1.00	1.82	2.00	1.45	1.00	7.91	8.00	16.93	16.00
21875	Rasin's Wheat, Corn & Oats Mix.	Hagerstown	.55	.50	2.06	2.00	1.62	1.00	8.77	8.00	15.43	14.00
22017	Rasin's Wheat Potash Mixture	Graceham	.....	.....	5.63	5.00	1.02	1.00	7.78	8.00	12.83	12.40
21951	Rasin's XXX Fertilizer	Greensboro	2.22	2.00	5.29	5.00	1.50	1.00	7.59	8.00	23.88	23.00
21890	William Penn Crop Grower	Germantown	1.21	1.00	1.24	1.00	1.40	1.00	7.88	8.00	16.10	15.00
21952	Wright's Double Potash Phos	Federalsburg	.....	.....	4.34	4.00	1.72	1.00	9.10	9.00	12.87	12.30
	Reindollar Co., Taneytown, Md.											
21923	Economy Fertilizer	Taneytown	1.08	1.00	4.33	4.00	.80	.....	9.66	8.00	20.56	17.60
21924	Special Compound	Taneytown	.56	.50	1.62	1.00	1.70	.....	8.66	8.00	14.93	12.60
	W. E. Robinson & Co., Bel Air, Md.											
21992	Potato and Wheat Fertilizer	Fallston	1.91	2.00	2.39	2.00	1.45	.....	7.56	8.00	19.68	19.60
21993	Special Wheat Mixture	Fallston	1.93	2.00	5.01	5.00	1.02	.....	7.83	8.00	22.54	22.60
	Scott Fertilizer Co., Elkton, Md.											
21982	Grain Special	Georgetown	.77	.50	4.57	4.00	1.47	.....	7.85	8.00	17.66	15.60
21968	Pure Ground Raw Bone	Childs	4.56	4.00	.....	.....	*22.65	*21.50	.....	.....	31.83	28.90
21969	Soluble Phosphate and Potash	Childs	.....	.....	5.36	5.00	2.47	.....	12.50	12.00	17.10	15.80
21970	Soluble Phosphate and Potash	Childs	.....	.....	3.16	3.00	2.12	.....	11.41	12.00	13.85	13.80
21971	Sure Crop Grower	Childs	2.12	2.00	5.53	5.00	3.90	.....	8.26	8.00	25.48	22.60
21972	Sure Growth Super-Phosphate	Rising Sun	2.15	2.00	3.46	3.00	2.12	.....	9.29	8.00	24.06	20.60
21983	Tip Top and Potash	Georgetown	.....	.....	2.30	2.00	3.15	.....	9.75	10.00	11.71	11.00
21973	Tip Top Soluble Phosphate	Childs	.....	.....	.....	.....	1.50	.....	15.92	14.00	14.63	12.60
	Southern Fertilizer Co., York, Pa.											
22054	Ox Brand Phosphate and Potash.	Baltimore	.....	.....	2.39	2.00	.57	.....	8.07	8.00	9.76	9.20
21876	Royal Wheat and Grass Grower	Hancock	.77	.50	1.27	1.00	1.00	.....	8.52	8.00	14.97	12.60
	W. H. Street & Co., Fallston, Md.											
22055	Ammoniated Dissolved Bone	Baltimore	1.51	1.50	2.54	2.00	1.07	1.50	8.86	9.00	19.64	19.40
22097	High Grade Bone Phosphate	Baltimore	2.46	2.50	3.79	3.00	.80	1.50	7.84	8.00	23.36	23.20
	H. S. Taveau & Co., Baltimore, Md.											
22070	Bone Mixture	Baltimore	.96	1.00	1.32	2.50	.55	.....	13.14	10.00	21.15	18.50
22711	Dissolved S. C. Bone	Baltimore	.....	.....	.....	.....	.47	.....	14.58	14.00	13.21	12.60
22072	Florida Phosphate	Baltimore	.....	.....	.....	.....	.57	.....	14.43	14.00	13.10	12.60
22730	Pure Fine Ground Bone Meal	Landover (W. B. B.)	3.23	3.00	.....	.....	*16.43	*13.73	.....	.....	22.78	20.24

a Contains Nitrate. b As Sulfate. *Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	H. S. Taveau & Co., Baltimore, Md.											
22073	Special Compound	Baltimore	.....	.....	2.76	2.00	.45	.....	11.15	10.00	$12.89	$11.00
22712	Special Wheat Mixture	Baltimore	.....	.....	3.58	3.00	.52	.....	11.58	12.00	14.10	13.80
22091	Wheat and Grass Compound	Baltimore	.....	.....	2.87	2.50	.47	.....	10.96	11.00	12.82	12.40
	D. A. Thomas & Co., Hagerstown, Md.											
22018	Bone Mixture	Boonsboro	1.84	2.00	2.49	2.00	1.02	.....	8.01	8.00	19.87	19.60
22019	Crown Jewel	Boonsboro	a1.02	1.00	2.60	3.00	.70	.....	10.08	9.00	19.06	17.80
22020	Dissolved Bone Phosphate	Boonsboro	.....	.....	.....	.....	2.07	.....	16.12	16.00	14.92	14.40
21877	Golden Sheaf	Hancock	.97	1.00	.88	1.00	.77	.....	9.14	8.00	16.04	14.60
22021	Pioneer	Thurmont	.....	.....	3.49	5.00	1.02	.....	9.47	8.00	12.21	12.20
21878	Potash Special	Hancock	.....	.....	4.68	5.00	.57	.....	12.87	12.00	16.37	15.80
22022	Pride of the Valley	Boonsboro	.46	.50	2.31	3.00	1.32	1.00	6.12	8.00	13.02	15.00
21879	Soluble Phosphate and Potash	Hancock	.....	.....	2.38	2.00	.45	1.00	10.02	10.00	11.49	11.20
21785	Special Mixture	Hagerstown (B O H)	2.03	2.00	2.77	2.00	4.72	.....	8.54	13.00	23.03	25.60
21786	Special Mixture	Hagerstown (M. W.)	a2.03	2.00	5.92	7.00	1.17	.....	10.77	10.00	27.43	27.00
	I. P. Thomas & Son Co., Phila., Pa.											
21974	Champion Phosphate	Providence	a2.02	2.00	4.25	4.00	2.47	.....	7.11	8.00	21.85	21.60
22718	Potato Fertilizer	Annapolis	2.04	2.00	5.87	6.00	.85	.....	9.72	9.00	26.03	24.80
21975	Special Corn Fertilizer	Providence	.....	.....	4.95	6.50	1.27	1.00	10.05	10.00	14.25	15.70
21976	Tip Top Super-Phosphate	Childs	a2.75	3.00	4.36	4.00	.77	1.00	8.38	8.00	25.73	26.00
21977	Victor Potash Manure	Providence	.90	1.00	4.56	5.00	1.47	1.00	8.02	8.00	18.37	19.00
	Wm. B. Tilghman Co., Salisb'y, Md.											
22035	Bone Tankage Mixture	Salisbury	1.79	2.00	2.74	2.00	.75	.....	7.71	8.00	19.45	19.60

22036	Fish, Bone and Potash	Salisbury	1.18	1.00	2.56	2.00	.55		10.02	10.00	$19.52	$18.00
22037	Special Mixture	Salisbury	.49	.33	2.67	2.00	.27		10.41	12.00	17.23	17.72
	Tuscarora Fert. Co., Balto., Md.											
22098	Alkaline	Baltimore			5.14	5.00	.47	.50	10.02	10.00	14.25	14.10
22709	Bone and Potash	Baltimore			4.75	5.00	.97	.50	11.85	12.00	15.61	15.90
22047	Sure Grower	Baltimore	.55	.50	3.32	3.00	.50	.50	8.49	8.00	15.91	14.80
22710	York State Special	Baltimore	1.04	1.00	4.29	4.00	.70	.50	8.33	8.00	18.73	17.80
	J. E. Tygert Co., Philadelphia, Pa.											
22719	Big Crop Grower	Baltimore			5.69	5.00	.25		8.66	8.00	13.53	12.20
22704	Golden Harvest Phosphate	Childs	.65	.50	2.02	2.00	1.55		8.43	8.00	15.36	13.60
22705	Victor Crop Grower	Childs	1.11	1.00	4.19	4.00	1.77		8.10	8.00	19.06	17.60
	J. Tyson & Son, Frederick, Md.											
21880	Ammoniated Super-Phosphate	Monrovia	.70	1.00	2.07	2.00	1.25		8.27	10.00	15.29	18.00
21772	Ammoniated Super-Phosphate	Bartholows (W E M)	1.16	1.75	2.14	2.00	1.27		7.42	10.00	16.19	21.00
22023	Half and Half Super-Phosphate	Lime Kiln	.92	1.00	2.01	2.00	.92		7.64	10.00	15.23	18.00
21757	Half and Half Super-Phosphate	Barnesville (R. H. D)	1.08	1.00	2.45	2.00	1.27		8.29	10.00	17.23	18.00
21881	Special Mixture	Monrovia	.73	1.00	1.49	1.00	.72		7.84	8.00	14.11	14.60
	E. S. Valliant & Sons, Church Hill, Md.											
21817	Ammoniated Potash Mixture	Baltimore	.44	.25	2.12	2.00	1.62		9.09	10.00	15.44	15.00
21953	Favorite Brand	Williston	2.08	2.00	5.56	5.00	.40		8.03	8.00	23.68	22.60
21778	Favorite Brand	Denton (E. M. N.)	2.22	2.00	5.65	5.00	.60		7.50	8.00	23.77	22.60
21825	Grain Grower	Baltimore	.65	.50	2.37	2.00	.72	1.00	7.57	8.00	14.34	14.00
22056	Ideal Fertilizer	Baltimore	1.25	1.00	2.15	2.00	.65		9.07	9.00	18.29	16.80
21818	Standard Fertilizer	Baltimore	1.04	1.00	4.10	4.00	1.60		8.35	9.00	18.92	18.80
	Virginia-Carolina Chemical Co., Richmond, Va.											
22063	Acid Phosphate 14%	Baltimore					1.62	1.00	14.19	14.00	13.09	12.80
22024	Birely's Ammoniated Bone Phos.	Walkersville	.58	.50	1.07	1.00	2.07	1.00	7.57	8.00	13.30	13.00
22025	Birely's Crop Producer	Walkersville			2.62	2.00	1.60	1.00	11.02	9.00	12.86	10.30
21954	Corn and Buckwheat Special	Two Johns			3.09	3.00	1.15	1.00	6.07	6.00	8.78	8.60
21925	High Grade Bone and Potash	Sykesville			5.45	5.00	1.80	1.00	11.72	12.00	16.36	16.00
22074	National Ammoniated Guano	Baltimore	1.13	1.00	3.71	4.00	1.30	1.00	8.38	8.00	18.81	18.00
21984	Peerless Bone and Potash	Crumpton			2.05	2.00	1.65	1.00	8.18	8.00	9.74	9.40
21882	Special Bone and Potash	Emmitsburg			4.92	5.00	1.32	1.00	10.14	10.00	14.31	14.20
22075	Special Compound	Baltimore	1.14	1.00	1.01	1.00	1.40	1.00	9.23	8.00	17.21	15.00
21883	Standard Bone and Potash	Emmitsburg			2.01	2.00	2.32	1.00	10.54	10.00	11.96	11.20
21926	Union Super-Phosphate	Melrose			3.44	3.00	.87	1.00	5.87	6.00	8.89	8.60

a Contains Nitrate.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	S. L. Webster & Son, Cambridge, Md.											
22030	Ammoniated Bone Fertilizer	Secretary	2.52	2.50	3.15	2.50	2.37	.....	8.87	10.00	$24.82	$24.50
22031	Old Dorset Ammoniated Bone	Cambridge	.72	1.00	4.17	4.00	1.00	.....	8.17	8.00	17.25	17.60
	Westminster Fertilizer Co., Westminster, Md.											
21927	Big Gun	Westminster	1.91	2.00	2.29	2.00	.92	.....	10.46	10.00	22.85	22.00
21928	Governor	Westminster	1.57	1.50	2.88	2.50	.57	.....	9.47	9.00	20.75	19.30
21929	Leader	Tyrone	.96	1.00	1.94	1.50	.72	.....	8.64	8.00	16.44	15.10
21930	Super—A—	Tyrone	.78	.75	1.17	1.00	.37	.....	8.64	8.00	14.81	13.60
	H. W. Whistler, Fountain Green, Md.											
21994	Crop Grower	Bel Air	1.69	1.50	2.49	2.00	1.87	.....	8.03	8.00	19.64	17.60
	R. A. Wooldridge Co., Balto., Md.											
21827	Champion Giant Phosphate	Baltimore	1.13	1.00	2.23	2.00	1.10	.....	9.36	9.00	18.42	16.80
21955	Chieftain Phosphate	Centreville	2.03	2.00	2.47	2.00	1.00	.....	8.29	8.00	20.94	19.60
21828	Farmers' Favorite Cereal Com.	Baltimore	.55	.50	2.54	2.00	.65	.....	6.68	7.00	13.02	12.40
21819	Fernwood Grange Mixture	Baltimore	2.04	2.00	6.09	6.00	1.60	.....	8.04	8.00	24.54	23.60
22042	Florida Phosphate	Baltimore	.....	.....	.....	.....	.32	.....	15.13	14.00	13.68	12.60
21931	German Potash Mixture	Melrose	.....	.....	2.29	2.00	.62	.....	10.71	10.00	12.05	11.00
22048	High Grade Acid Phosphate	Baltimore	.....	.....	.....	.....	.27	.....	16.12	16.00	14.56	14.40
22092	High Grade Dis. Animal Bone	Baltimore	2.54	2.50	.....	.....	1.90	.....	12.08	12.00	25.42	24.40
22032	Ideal Grain and Grass Producer	Cambridge	.....	.....	3.95	4.00	.60	.....	10.37	10.00	13.40	13.00
22033	Liberty Bell Potash Mixture	Easton	.....	.....	3.27	3.00	.37	.....	12.64	12.00	14.72	13.80
21829	No. 1 Phosphate and Potash	Baltimore	.....	.....	3.49	3.00	.48	.....	7.22	6.00	10.09	8.40
22034	No. 2 Phosphate and Potash	Choptank	.....	.....	5.38	5.00	.32	.....	8.80	8.00	13.36	12.20

21956	Old Sledge	Centreville	.....	.....	5.86	5.00	.45	.....	11.87	12.00	$16.63	$15.80
22099	Pure Raw Bone	Baltimore	4.57	4.00	.....	.....	*22.52	*20.59	.....	.....	31.79	28.35
21995	Sweet Stakes	Perryman	4.13	3.00	7.24	8.00	.70	.....	8.07	7.00	33.72	28.40
21830	Triumph Brand Phosphate	Baltimore	1.57	1.50	4.45	4.00	.85	.....	8.14	8.00	20.84	19.60
	Wooldridge Fert. Co., Balto., Md.											
21891	Clover Leaf	Germantown	.61	.50	2.18	2.00	.67	.50	8.10	8.00	14.61	13.80
21850	Curacao Guano	Baltimore	.....	.....	.....	.....	17.10	11.50	7.03	8.50	9.75	9.95
21851	Orchilla Guano	Baltimore	.....	.....	.....	.....	14.05	11.50	4.95	6.50	7.27	8.15
22085	Tiger Bone Stock Phosphate	Baltimore	1.18	1.25	4.58	4.50	1.42	.50	8.40	8.00	19.95	19.30
	York Chemical Works, York, Pa.											
21932	Dempwolf's Half and Half	Uniontown	1.01	1.00	1.42	1.00	.92	.....	7.48	7.00	14.81	13.40
21933	Dempwolf's Harvest Queen	Middleburg	.87	1.00	1.66	2.00	1.60	.....	7.80	8.00	15.14	15.60
21934	Dempwolf's Plow Brand Fer	Taneytown	1.55	2.00	2.04	2.00	1.42	.....	7.28	8.00	17.55	19.60
21935	Dempwolf's Standard Pot. Fer	Taneytown	.89	1.00	4.05	4.00	1.20	.....	6.34	8.00	15.70	17.60
22732	Dempwolf's Standard	Bel Air	1.57	2.00	4.40	5.00	1.05	.....	8.61	8.00	21.43	22.60
21936	Dempwolf's Wheat Special	Uniontown	.....	.....	1.86	2.00	.82	.....	10.38	10.00	11.36	11.00

*Total Phosphoric Acid.

Fertilizer Law of Maryland.

Section 1. That the term "fertilizer," as used in this Act, shall be held to mean any commercial fertilizer, or any article, substance or mixture sold, offered or exposed for sale for manurial purposes within this State, of which the selling price shall be more than ten dollars per ton of two thousand pounds.

That the term "brand," as used in this Act, shall be held to mean the name under which the commercial fertilizer is sold, together with the statement of the percentage of valuable ingredients contained therein.

That the professor in charge of the Chemical Department of the Maryland Agricultural College shall be ex-officio State Chemist, or (that the term State Chemist, as used in this Act, shall mean the professor in charge of the Chemical Department of the Maryland Agricultural College).

Sec. 2. And be it enacted, That before any fertilizer is sold, offered or exposed for sale within the State, the following conditions must be complied with: (1) The importer, manufacturer, manipulator, dealer or agent shall take out a license for the sale of fertilizer, which license shall be rated upon the number of brands contemplated to be sold at the rate of fifteen dollars for each brand; said license to be prepared and furnished by the Comptroller of the Treasury, and to be issued at any time, to be good until the first day of February following; provided that when any such importer, manufacturer or manipulator shall have taken out a license as herein provided, it shall not be necessary for any other person, as his agent or representative, to take out a license to sell the fertilizers provided for by the party who had taken out such license. (2) Every bag, barrel or package of fertilizer, and every parcel or lot, if sold in bulk, must bear the legible print, or be accompanied by a clear and true statement, showing the net pounds of fertilizer in the package or lot, the name, brand or trade-mark under which the fertilizer is sold, the name and address of the importer, manufacturer or manipulator, the place of manufacture or manipulation, and a chemical analysis stating the percentum of the minimum, and only the minimum, contained therein of nitrogen or its equivalent in available ammonia, of potash soluble in distilled water, and of available phosphoric acid.

Sec. 3. And be it enacted, That any failure to comply with any or all of the conditions provided in Section 2 of this Act, shall be punishable by a fine of one hundred dollars ($100) for the first offense, and two hundred dollars ($200) for every subsequent offense.

Sec. 4. And be it enacted, That any person, firm or company selling or offering for sale any fertilizer in this State, or intending so to do, and not licensed by the Comptroller, as provided by this Act, shall on and before the thirty-first day of July in each and every year, send his or their name or names, with the postoffice address, and the names of the kinds, brands and trade-marks, and of the manufacturer, importer or manipulator of each fertilizer sold or proposed to be sold, to the Maryland Agricultural College, and the same shall be registered in suitable books kept for that purpose, and any failure to comply with

the provisions of this section shall be punishable by a fine of twenty-five dollars ($25) for the first offense, and of fifty dollars ($50) for every subsequent offense.

Sec. 5. And be it enacted, That it shall be the duty of the Maryland Agricultural College to analyze, without cost or charge, all samples of fertilizer sent to it for the purpose of being analyzed by any person, or persons purchasing or procuring the same in this State for his or their use or uses; provided, such persons are not interested in the analysis desired other than a consumer, of which affidavit shall be made and shall accompany each sample or brand; and further, such samples are taken and sent as described by this Act and free of cost of transportation to said College, and it shall be the duty of the Maryland Agricultural College to procure samples, as far as practicable, in every year, of all the fertilizers sold and used in this State, for the purpose of analyzing the same, and any duly authorized agent or representative of the said College shall have the right to take samples, as provided by this Act, from any lot or parcel of fertilizer in transit or in possession or keeping of any manufacturer, manipulator, dealer or agent, and sold or offered for sale in this State, and it shall be the duty of the Maryland Agricultural College to send in the result of every sample of fertilizer to the persons from whom such sample was taken or received, and also to publish from time to time the results of the analysis made by the said College of the samples sent to or procured by it for such purpose, and it shall be the duty of the Maryland Agricultural College, when reporting or publishing the result of any analysis made, to state the commercial value in dollars and cents of the fertilizer so analyzed, per ton of two thousand pounds, such value to be based upon the analysis made by the College, and upon a standard of valuation to be ascertained, fixed and published by said College, annually, after conference with the proper officials of adjacent States.

Sec. 6. That all samples of fertilizer for analysis at the Maryland Agricultural College shall be taken from unbroken packages or bags that have not been damaged or injured in transit or by exposure, and when in the possession of the purchaser or purchasers within thirty (30) days after coming into their possession, it shall be lawful for any such purchaser or purchasers of any such manures or fertilizers, provided that he be not a manufacturer, manipulator or agent of either, to take from any such unbroken packages or bags, a sample, not exceeding two pounds, placing the same in bottle or bottles, jar or jars, which shall then be corked tightly and forwarded to the Maryland Agricultural College for analysis, that it shall not be lawful for the said Agricultural College, or its chemists, to previously demand of any such purchaser or purchasers so sending said sample or samples for analysis, to give advices, information or statement to the said College or its chemists as to any analysis found on the original unbroken packages or bags from which said sample or samples were taken, or the name or names of any individual, representative, agent or corporation or firm from which said manures or fertilizers were purchased; and it shall be the duty of the Agricultural College to have its proper and authorized chemist to at once make a full and complete analysis of the manures or fertilizers contained in such bottles, jar or jars, and within

thirty (30) days thereafter return to such person or persons from whom the sample or samples were received a full and complete analysis of the said manures or fertilizers sent for analysis. And it shall be unlawful for any individual or any representative or agent of any corporation or firm, or any corporation or firm itself, to have, either directly or indirectly, communication with the Agricultural College or its chemist, agent or representative, or the sender of any sample with regard to the analysis of any manures or fertilizers sent to the Agricultural College by the purchaser or purchasers thereof for analysis under the provisions of this section, nor shall the Agricultural College nor its chemist nor its agent or agents, or the sender of any sample, furnish any information or communicate with the manufacturer of fertilizers about any such sample submitted for analysis until after a report of said analysis shall have been duly furnished to the applicant for such analysis under this section; provided, that all samples sent to the Maryland Agricultural College by any purchaser or purchasers, shall be drawn from at least five per cent. of the total number of bags purchased; these samples to be thoroughly mixed in a clean, dry place, and a suitable sample shall be taken from said mixture and placed in a suitable vessel or vessels, carefully closed, with an identifying label, and the same then taken or sent by safe carriage to the said College for analysis; every sample for analysis by the State Chemist, as provided for by this section, shall be fully described in forms to be furnished by said chemist free of charge, said description giving a full and complete statement of the time and place of sampling of all marks on the bags or packages thereof, and all of the facts relating to the same, said description and statement shall be made under affidavit before a justice of the peace or notary public, and the same shall be retained as confidential by said justice or notary until required by this Act to be sent to the State Chemist; provided, further, that the purchaser or purchasers sending such sample or samples of fertilizer shall withhold said description or descriptions of said sample or samples until he has received the report of the said State Chemist of the analysis of the same.

Any person or persons receiving an analysis from the State Chemist under this Act, shall immediately thereafter forward to him the statement required by this Act, to be made at the time of taking the sample or samples, and any person or persons violating the provisions of this section shall be punished by a fine of one hundred dollars; and any manufacturer, agent or representative who shall be convicted of making false and fraudulent representations as to the quality and constituent elements of any fertilizers by the printed analysis upon any such bag or packages shall be fined one hundred ($100) dollars for the first offense, and two hundred ($200) dollars for every subsequent offense thereafter; and the report of the analysis of any such sample of fertilizer sent to the Agricultural College for examination under this Act shall be prima facie evidence as to the quality of the lot of fertilizer from which said sample was taken.

Sec. 7. And be it enacted, That the funds received by the Comptroller from the licenses issued under this Act shall be paid into the Treasury, and be set apart as a specific fund to pay the cost and expenses of conducting the analysis provided for in section five of this

Act, and the Treasurer shall semi-annually pay over to the Maryland Agricultural College the money received from said licenses; provided, that the amount paid in any one year shall not be more than at the rate of fifteen dollars ($15) for each sample of fertilizer analyzed by the said College.

Sec. 8. And be it enacted, That any purchaser of fertilizer who shall be injured or defrauded by the contents of the bag, barrel or other packages, not conforming in quanity or quality to the marks, labels or statements on or accompanying the same, may recover from the seller or sellers thereof, in an action of debt, an amount equal to the purchase money of said fertilizer and the cost of suit; and in case the purchase is made of an agent of any person or persons residing out of the limits of the State of Maryland, or company or corporation whose principal place of business is out of the State, manufacturing, compounding, preparing and furnishing for sale any such commercial fertilizer, the purchaser thereof may, at his or her option, proceed by attachment, as now provided for by law in cases of non-resident and absconding debtors, against any property, rights or credit of any person, persons, company or corporation selling, manufacturing, preparing, compounding or furnishing said fertilizer when such property, rights or credits can be found within the limits of the State of Maryland.

Sec. 9. And be it enacted, That any manufacturer, dealer, agent of other person or persons who shall adulterate, add to or take anything from any fertilizer sold or offered for sale within this State, or who shall use the brand or trade-mark of any manufacturer or dealer other than his own, shall be deemed guilty of a misdemeanor, and shall, upon conviction thereof in any Court having jurisdiction, be punished by a fine not exceeding two hundred dollars ($200), and imprisonment in jail not exceeding six months, or by fine and imprisonment at the discretion of the Court before whom he shall be tried.

Sec. 10. And be it enacted, That this Act shall not effect parties importing, manufacturing or manipulating fertilizer for their own use, if not sold or disposed of; and it shall not apply to substances and materials sold in bulk to manufacturers or manipulators of fertilizer, and nothing in this Act shall prevent the buyer and seller from making contracts in reference to the price to be paid dependent upon the composition or quality of the fertilizer contracted for, but no arrangement or agreement, verbal or written, made by or between and seller and buyer of fertilizer in this State, for the purpose of exonerating the seller or manufacturer from liability for any violation of any of the provisions of this Act, shall exempt any person from such liability.

Sec. 11. And be it enacted, That it shall be the duty of all State's Attorneys to prosecute all persons accused of violating this Act, or any of the provisions of this Act, or of the Act to which this is a supplement.

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